



# Leading Inverter Manufacturer

String Inverter | Hybrid Inverter | Microinverter



#### Note:

The technical data above mentioned may be updated or revised due to product development.

The data in this brochure is subject to change without notice.

The latest datasheet and catalogue can be acquired via [market@deye.com.cn](mailto:market@deye.com.cn)

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Deye Inverter



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# Company Profile

1

**Ningbo Deye Inverter Technology Co., Ltd**, founded in 2007 with registered capital 56 million USD, is one of the China's high-tech enterprises and a subsidiary of Deye Group. With a plant area over 600,000m<sup>2</sup> and complete production and testing equipment, Deye has become a major player in the global solar inverter market.

2

**Ningbo Deye Inverter Technology Co., Ltd** is dedicated to providing complete photovoltaic power system solutions, including residential and commercial power plants solutions. Also, Deye offers solar energy storage system solutions. Among them, PV grid-connected inverter power range from 1-136kW, Hybrid inverter 3kW-80kW, and microinverter 300W-2250W.

3

As a technology-oriented company, Deye has always been committing to research and develop new cutting-edge technologies to provide efficiency and reliable products. For example, Deye adopts T-type three-level topology and enhanced SVPWM algorithm to further improve the conversion efficiency by 0.7% compared with common SPWM. With frequency droop control technology, Deye string inverter is able to work with diesel generator, which greatly expands the scope of the product application.

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**Deye New Energy Australia**, a subsidiary of Deye, is focused on serving our local Australian clients better. We are establishing local warehouses and on-site technical services to enhance operations and ensure prompt, efficient service tailored to our customers' needs.

# Milestones

## 2023

Cumulative shipments of hybrid inverters surpass **1 million** units.

## 2021

Deye Group was successfully listed on SSE of China in 2021, Stock Code **605117.SH**.

## 2017

Deye has launched first generation hybrid inverter and attracted a lot of attention with many unique features such as V/f droop control technology and battery DC / DC topology etc...

## 2024

Launch of the next-generation hybrid inverters and microinverters with a fresh design.

## 2022

Launched the latest generation of **50kW** hybrid inverter, equipped with independent two-way battery terminal port.

## 2019

By the end of 2019, with total shipments **30,000+**, Deye hybrid inverter has become Top 3 in South Africa, Pakistan and **Top 1** Chinese brand in USA.

## 2007

Founded in 2007 with registered capital of **56 million USD**.

# Core Technology

Deye hybrid inverter 3-50kW with 230/240/400Vac

- ◆ Automatic switching time 4ms
- ◆ 6 time periods for battery charging/discharging
- ◆ V/f droop control, Max. 16pcs in parallel
- ◆ Supports using diesel generator to charge battery directly, ensuring system energy supply 7\* 24H
- ◆ Max. conversion efficiency of 97.6%; Max. battery charge efficiency of 96.5%



# Core Features

## Deye grid-connected inverter 3-25kW

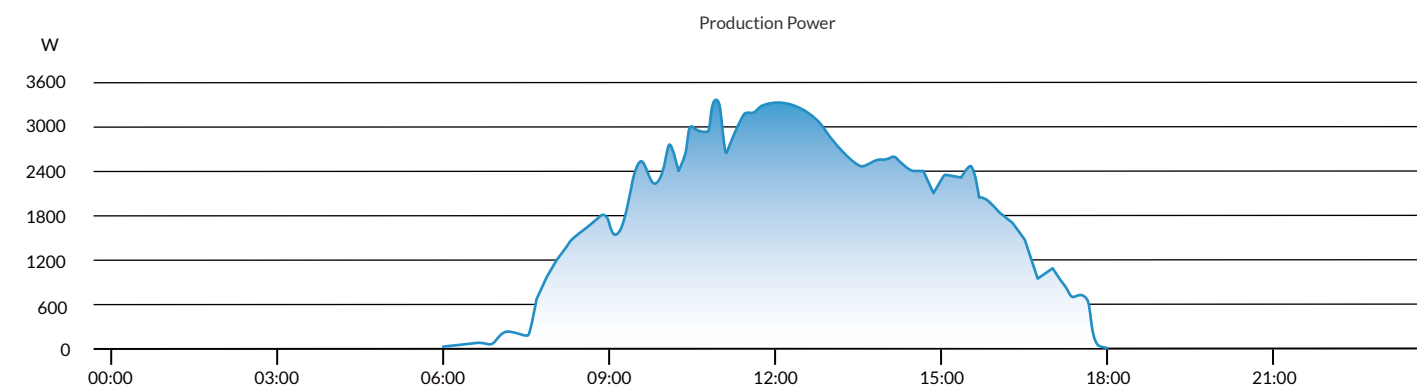
- ◆ High DC/AC ratio 1.5 times for more yields
- ◆ Zero export application, response speed within 0.5S
- ◆ T-type three-level topology and enhanced SVPWM
- ◆ Type II DC / AC SPD, frequency droop control technology
- ◆ Max. DC input current of 19.5A/string, adapt to 600W solar panel
- ◆ String intelligent monitoring (optional), Ani-PID function (Optional)



# Main Highlights

## Deye microinverter 300-2250W

- ◆ Support reactive power compensation, comply with UL code.
- ◆ Module level monitoring, Max. 4 MPPTs design
- ◆ Max. DC input current 18A, adapt to 790W PV module
- ◆ Rapid shutdown function, safe and reliable
- ◆ WIFI communication
- ◆ IP67 protection degree, 15 years warranty



Physical Layout

|       |       |       |       |
|-------|-------|-------|-------|
| 0W    | 200 W | 180 W | 150 W |
| 170 W | 170 W | 280 W | 250 W |
| 270 W | 280 W | 260 W | 240 W |



# Single Phase String Inverter

SUN-3K-G04-AU



-  1 MPP trackers, Max. efficiency up to 97.5%
-  Zero export application, VSG application
-  String intelligent monitoring (optional)
-  Wide output voltage range
-  Anti-PID function (Optional)
-  Low start-up voltage of 80V

## Technical Data

| Model                                              | SUN-3K-G04-AU                                          |
|----------------------------------------------------|--------------------------------------------------------|
| <strong>PV String Input Data</strong>              |                                                        |
| Max. PV Input Power (kW)                           | 4.5                                                    |
| Max. PV Input Voltage (V)                          | 550                                                    |
| Start-up Voltage (V)                               | 80                                                     |
| MPPT Voltage Range (V)                             | 70-500                                                 |
| Rated PV Input Voltage (V)                         | 360                                                    |
| Max. Operating PV Input Current (A)                | 13                                                     |
| Max. Input Short Circuit Current (A)               | 19.5                                                   |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 1/1                                                    |
| <strong>AC Output Data</strong>                    |                                                        |
| Rated AC Output Active Power(kW)                   | 3                                                      |
| Max. AC Output Apparent Power(kVA)                 | 3                                                      |
| Rated AC Output current (A)                        | 13                                                     |
| Max. AC Output Current(A)                          | 13                                                     |
| Rated Output voltage/range (V)                     | 230 0.85Un-1.1Un                                       |
| Grid Connection Form                               | L/N/PE                                                 |
| Rated Output Grid Frequency/range(Hz)              | 50Hz/45Hz-55Hz                                         |
| Power Factor Adjustment Range                      | 0.8 leading to 0.8 lagging                             |
| Total Current Harmonic Distortion THDi             | <3%                                                    |
| DC Injection Current                               | <0.5%In                                                |
| <strong>Efficiency</strong>                        |                                                        |
| Max. Efficiency                                    | 97.5%                                                  |
| Euro Efficiency                                    | 97%                                                    |
| MPPT Efficiency                                    | >99%                                                   |
| <strong>Equipment Protection</strong>              |                                                        |
| DC Polarity Reverse Connection Protection          | Yes                                                    |
| AC Output Overcurrent Protection                   | Yes                                                    |
| AC Output Overvoltage Protection                   | Yes                                                    |
| AC Output Short Circuit Protection                 | Yes                                                    |
| Thermal Protection                                 | Yes                                                    |
| DC Terminal Insulation Impedance Monitoring        | Yes                                                    |
| DC Component Monitoring                            | Yes                                                    |
| Ground Fault Current Monitoring                    | Yes                                                    |
| Arc Fault Circuit Interrupter (AFCI)               | Optional                                               |
| Power Network Monitoring                           | Yes                                                    |
| Island Protection Monitoring                       | Yes                                                    |
| Earth Fault Detection                              | Yes                                                    |
| Overvoltage Load Drop Protection                   | Yes                                                    |
| Residual Current (RCD) Detection                   | Yes                                                    |
| Surge Protection Level                             | TYPE II(DC), TYPE II(AC)                               |
| <strong>Interface</strong>                         |                                                        |
| Communication Interface                            | RS485/RS232/CAN                                        |
| Monitor Mode                                       | GPRS/WIFI/Bluetooth/4G/LAN(optional)                   |
| <strong>General Data</strong>                      |                                                        |
| Operating Temperature Range (°C)                   | -25 to +65°C, >45°C Derating                           |
| Permissible Ambient Humidity                       | 0-100%                                                 |
| Permissible Altitude (m)                           | 2000m                                                  |
| Noise (dB)                                         | ≤ 35 dB(A)                                             |
| Ingress Protection(IP) Rating                      | IP 65                                                  |
| Inverter Topology                                  | Transformerless                                        |
| Over Voltage Category                              | OVC II(DC), OVC III(AC)                                |
| Cabinet Size ( mm)                                 | 280W×310H×184 D (Excluding Connectors and Brackets)    |
| Weight (kg)                                        | 4.8                                                    |
| Warranty                                           | 10 Years                                               |
| Type of Cooling                                    | Natural Cooling                                        |
| Grid Regulation                                    | AS/NZS 4777.2                                          |
| Safety EMC/Standard                                | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2 |

# Single Phase String Inverter

SUN-3.6/5/6K-G04-AU



2 MPP trackers, Max. efficiency up to 97.5%



Zero export application, VSG application



String intelligent monitoring (optional)



Wide output voltage range



Anti-PID function (Optional)



Low start-up voltage of 80V

## Technical Data

| Model                                              | SUN-3.6K-G04-AU                                        |       | SUN-5K-G04-AU | SUN-6K-G04-AU |
|----------------------------------------------------|--------------------------------------------------------|-------|---------------|---------------|
| PV String Input Data                               |                                                        |       |               |               |
| Max. PV Input Power (kW)                           | 5.4                                                    | 7.5   | 9             |               |
| Max. PV Input Voltage (V)                          | 550                                                    |       |               |               |
| Start-up Voltage (V)                               | 80                                                     |       |               |               |
| MPPT Voltage Range (V)                             | 70-500                                                 |       |               |               |
| Rated PV Input Voltage (V)                         | 360                                                    |       |               |               |
| Max. Operating PV Input Current (A)                | 13+13                                                  |       |               |               |
| Max. Input Short Circuit Current (A)               | 19.5+19.5                                              |       |               |               |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 2/1+1                                                  |       |               |               |
| AC Output Data                                     |                                                        |       |               |               |
| Rated AC Output Active Power(kW)                   | 3.6                                                    | 5     | 6             |               |
| Max. AC Output Apparent Power(kVA)                 | 3.6                                                    | 5     | 6             |               |
| Rated AC Output current (A)                        | 13                                                     | 21.7  | 26.1          |               |
| Max. AC Output Current(A)                          | 13                                                     | 21.7  | 26.1          |               |
| Rated Output voltage/range (V)                     | 230 0.85Un-1.1Un                                       |       |               |               |
| Grid Connection Form                               | L/N/PE                                                 |       |               |               |
| Rated Output Grid Frequency/range(Hz)              | 50Hz/45Hz-55Hz                                         |       |               |               |
| Power Factor Adjustment Range                      | 0.8 leading to 0.8 lagging                             |       |               |               |
| Total Current Harmonic Distortion THDi             | <3%                                                    |       |               |               |
| DC Injection Current                               | <0.5%In                                                |       |               |               |
| Efficiency                                         |                                                        |       |               |               |
| Max. Efficiency                                    | 97.3%                                                  | 97.5% |               |               |
| Euro Efficiency                                    | 96.9%                                                  | 97%   |               |               |
| MPPT Efficiency                                    | >99%                                                   |       |               |               |
| Equipment Protection                               |                                                        |       |               |               |
| DC Polarity Reverse Connection Protection          | Yes                                                    |       |               |               |
| AC Output Overcurrent Protection                   | Yes                                                    |       |               |               |
| AC Output Overvoltage Protection                   | Yes                                                    |       |               |               |
| AC Output Short Circuit Protection                 | Yes                                                    |       |               |               |
| Thermal Protection                                 | Yes                                                    |       |               |               |
| DC Terminal Insulation Impedance Monitoring        | Yes                                                    |       |               |               |
| DC Component Monitoring                            | Yes                                                    |       |               |               |
| Ground Fault Current Monitoring                    | Yes                                                    |       |               |               |
| Arc Fault Circuit Interrupter (AFCI)               | Optional                                               |       |               |               |
| Power Network Monitoring                           | Yes                                                    |       |               |               |
| Island Protection Monitoring                       | Yes                                                    |       |               |               |
| Earth Fault Detection                              | Yes                                                    |       |               |               |
| Overvoltage Load Drop Protection                   | Yes                                                    |       |               |               |
| Residual Current (RCD) Detection                   | Yes                                                    |       |               |               |
| Surge Protection Level                             | TYPE II(DC), TYPE II(AC)                               |       |               |               |
| Interface                                          |                                                        |       |               |               |
| Communication Interface                            | RS485/RS232/CAN                                        |       |               |               |
| Monitor Mode                                       | GPRS/WIFI/Bluetooth/4G/LAN(optional)                   |       |               |               |
| General Data                                       |                                                        |       |               |               |
| Operating Temperature Range (°C)                   | -25 to +65°C, >45°C Derating                           |       |               |               |
| Permissible Ambient Humidity                       | 0-100%                                                 |       |               |               |
| Permissible Altitude (m)                           | 2000m                                                  |       |               |               |
| Noise (dB)                                         | ≤ 35 dB(A)                                             |       |               |               |
| Ingress Protection(IP) Rating                      | IP 65                                                  |       |               |               |
| Inverter Topology                                  | Transformerless                                        |       |               |               |
| Over Voltage Category                              | OVC II(DC), OVC III(AC)                                |       |               |               |
| Cabinet Size ( mm)                                 | 330W×323H×190D (Excluding Connectors and Brackets)     |       |               |               |
| Weight (kg)                                        | 8                                                      |       |               |               |
| Warranty                                           | 10 Years                                               |       |               |               |
| Type of Cooling                                    | Natural Cooling                                        |       |               |               |
| Grid Regulation                                    | AS/NZS 4777.2                                          |       |               |               |
| Safety EMC/Standard                                | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2 |       |               |               |

# Single Phase String Inverter

SUN-7/7.5/8K-G02P1-AU-AM2



-  2 MPP trackers, Max. efficiency up to 97.7%
-  Zero export application, VSG application
-  String intelligent monitoring (optional)
-  Wide output voltage range
-  Anti-PID function (Optional)
-  Low start-up voltage of 80V

## Technical Data

| Model                                              | SUN-7K-G02P1-AU-AM2                                    |  | SUN-7.5K-G02P1-AU-AM2 |  | SUN-8K-G02P1-AU-AM2 |  |
|----------------------------------------------------|--------------------------------------------------------|--|-----------------------|--|---------------------|--|
| PV String Input Data                               |                                                        |  |                       |  |                     |  |
| Max. PV Input Power (kW)                           | 10.5                                                   |  | 11.3                  |  | 12                  |  |
| Max. PV Input Voltage (V)                          | 550                                                    |  |                       |  |                     |  |
| Start-up Voltage (V)                               | 80                                                     |  |                       |  |                     |  |
| MPPT Voltage Range (V)                             | 70-500                                                 |  |                       |  |                     |  |
| Rated PV Input Voltage (V)                         | 360                                                    |  |                       |  |                     |  |
| Max. Operating PV Input Current (A)                | 18+26                                                  |  |                       |  |                     |  |
| Max. Input Short Circuit Current (A)               | 27+39                                                  |  |                       |  |                     |  |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 2/1+2                                                  |  |                       |  |                     |  |
| AC Output Side                                     |                                                        |  |                       |  |                     |  |
| Rated AC Output Active Power (kW)                  | 7                                                      |  | 7.5                   |  | 8                   |  |
| Max. AC Output Apparent Power (kVA)                | 7                                                      |  | 7.5                   |  | 8                   |  |
| Rated AC Output Current (A)                        | 30.5                                                   |  | 32.7                  |  | 34.8                |  |
| Max. AC Output Current (A)                         | 30.5                                                   |  | 32.7                  |  | 34.8                |  |
| Rated Output Voltage/Range (V)                     | 230 0.85Un-1.1Un                                       |  |                       |  |                     |  |
| Grid Connection Form                               | L/N/PE                                                 |  |                       |  |                     |  |
| Rated Output Grid Frequency/Range(Hz)              | 50/45-55                                               |  |                       |  |                     |  |
| Power Factor Adjustment Range                      | 0.8 leading to 0.8 lagging                             |  |                       |  |                     |  |
| Total Current Harmonic Distortion THDi             | <3%                                                    |  |                       |  |                     |  |
| DC Injection Current                               | <0.5%In                                                |  |                       |  |                     |  |
| Efficiency                                         |                                                        |  |                       |  |                     |  |
| Max. Efficiency                                    | 97.7%                                                  |  |                       |  |                     |  |
| Euro Efficiency                                    | 97.2%                                                  |  |                       |  |                     |  |
| MPPT Efficiency                                    | >99%                                                   |  |                       |  |                     |  |
| Equipment Protection                               |                                                        |  |                       |  |                     |  |
| DC Polarity Reverse Connection Protection          | Yes                                                    |  |                       |  |                     |  |
| AC Output Overcurrent Protection                   | Yes                                                    |  |                       |  |                     |  |
| AC Output Overvoltage Protection                   | Yes                                                    |  |                       |  |                     |  |
| AC Output Short Circuit Protection                 | Yes                                                    |  |                       |  |                     |  |
| Thermal Protection                                 | Yes                                                    |  |                       |  |                     |  |
| DC Terminal Insulation Impedance Monitoring        | Yes                                                    |  |                       |  |                     |  |
| DC Component Monitoring                            | Yes                                                    |  |                       |  |                     |  |
| Ground Fault Current Monitoring                    | Yes                                                    |  |                       |  |                     |  |
| Arc Fault Circuit Interrupter (AFCI)               | Optional                                               |  |                       |  |                     |  |
| Power Network Monitoring                           | Yes                                                    |  |                       |  |                     |  |
| Island Protection Monitoring                       | Yes                                                    |  |                       |  |                     |  |
| Earth Fault Detection                              | Yes                                                    |  |                       |  |                     |  |
| Overvoltage Load Drop Protection                   | Yes                                                    |  |                       |  |                     |  |
| Residual Current (RCD) Detection                   | Yes                                                    |  |                       |  |                     |  |
| Surge Protection Level                             | TYPE II(DC), TYPE II(AC)                               |  |                       |  |                     |  |
| Interface                                          |                                                        |  |                       |  |                     |  |
| Communication Interface                            | RS485                                                  |  |                       |  |                     |  |
| Monitor Mode                                       | GPRS/WIFI/Bluetooth/4G/LAN(optional)                   |  |                       |  |                     |  |
| General Data                                       |                                                        |  |                       |  |                     |  |
| Operating Temperature Range (°C)                   | -25 to +60°C, >45°C Derating                           |  |                       |  |                     |  |
| Permissible Ambient Humidity                       | 0-100%                                                 |  |                       |  |                     |  |
| Permissible Altitude (m)                           | 3000m                                                  |  |                       |  |                     |  |
| Noise (dB)                                         | ≤35                                                    |  |                       |  |                     |  |
| Ingress Protection(IP) Rating                      | IP 65                                                  |  |                       |  |                     |  |
| Inverter Topology                                  | Transformerless                                        |  |                       |  |                     |  |
| Over Voltage Category                              | OVC II(DC), OVC III(AC)                                |  |                       |  |                     |  |
| Cabinet Size (WxHxD mm)                            | 330×310×208.5 (Excluding Connectors and Brackets)      |  |                       |  |                     |  |
| Weight (kg)                                        | 12.1                                                   |  |                       |  |                     |  |
| Warranty                                           | 10 Years                                               |  |                       |  |                     |  |
| Type of Cooling                                    | Natural Cooling                                        |  |                       |  |                     |  |
| Grid Regulation                                    | AS/NZS 4777.2                                          |  |                       |  |                     |  |
| Safety EMC/Standard                                | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2 |  |                       |  |                     |  |

# Single Phase String Inverter

SUN-9/10/10.5K-G02P1-AU-AM2



-  2 MPP trackers, Max. efficiency up to 97.7%
-  Zero export application, VSG application
-  String intelligent monitoring (optional)
-  Wide output voltage range
-  Anti-PID function (Optional)
-  Low start-up voltage of 80V

## Technical Data

| Model                                              | SUN-9K-G02P1-AU-AM2                                    |      | SUN-10K-G02P1-AU-AM2 | SUN-10.5K-G02P1-AU-AM2 |
|----------------------------------------------------|--------------------------------------------------------|------|----------------------|------------------------|
| PV String Input Data                               |                                                        |      |                      |                        |
| Max. PV Input Power (kW)                           | 13.5                                                   | 15   | 15.75                |                        |
| Max. PV Input Voltage (V)                          | 550                                                    |      |                      |                        |
| Start-up Voltage (V)                               | 80                                                     |      |                      |                        |
| MPPT Voltage Range (V)                             | 70-500                                                 |      |                      |                        |
| Rated PV Input Voltage (V)                         | 360                                                    |      |                      |                        |
| Max. Operating PV Input Current (A)                | 26+26                                                  |      |                      |                        |
| Max. Input Short Circuit Current (A)               | 39+39                                                  |      |                      |                        |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 2/2+2                                                  |      |                      |                        |
| AC Output Side                                     |                                                        |      |                      |                        |
| Rated AC Output Active Power (kW)                  | 9                                                      | 9.99 | 10.5                 |                        |
| Max. AC Output Apparent Power (kVA)                | 9                                                      | 9.99 | 10.5                 |                        |
| Rated AC Output Current (A)                        | 39.2                                                   | 43.5 | 45.7                 |                        |
| Max. AC Output Current (A)                         | 39.2                                                   | 43.5 | 45.7                 |                        |
| Rated Output Voltage/Range (V)                     | 230 0.85Un-1.1Un                                       |      |                      |                        |
| Grid Connection Form                               | L/N/PE                                                 |      |                      |                        |
| Rated Output Grid Frequency/Range(Hz)              | 50/45-55,                                              |      |                      |                        |
| Power Factor Adjustment Range                      | 0.8 leading to 0.8 lagging                             |      |                      |                        |
| Total Current Harmonic Distortion THDi             | <3%                                                    |      |                      |                        |
| DC Injection Current                               | <0.5In                                                 |      |                      |                        |
| Efficiency                                         |                                                        |      |                      |                        |
| Max. Efficiency                                    | 97.7%                                                  |      |                      |                        |
| Euro Efficiency                                    | 97.2%                                                  |      |                      |                        |
| MPPT Efficiency                                    | >99%                                                   |      |                      |                        |
| Equipment Protection                               |                                                        |      |                      |                        |
| DC Polarity Reverse Connection Protection          | Yes                                                    |      |                      |                        |
| AC Output Overcurrent Protection                   | Yes                                                    |      |                      |                        |
| AC Output Overvoltage Protection                   | Yes                                                    |      |                      |                        |
| AC Output Short Circuit Protection                 | Yes                                                    |      |                      |                        |
| Thermal Protection                                 | Yes                                                    |      |                      |                        |
| DC Terminal Insulation Impedance Monitoring        | Yes                                                    |      |                      |                        |
| DC Component Monitoring                            | Yes                                                    |      |                      |                        |
| Ground Fault Current Monitoring                    | Yes                                                    |      |                      |                        |
| Arc Fault Circuit Interrupter (AFCI)               | Optional                                               |      |                      |                        |
| Power Network Monitoring                           | Yes                                                    |      |                      |                        |
| Island Protection Monitoring                       | Yes                                                    |      |                      |                        |
| Earth Fault Detection                              | Yes                                                    |      |                      |                        |
| Overvoltage Load Drop Protection                   | Yes                                                    |      |                      |                        |
| Residual Current (RCD) Detection                   | Yes                                                    |      |                      |                        |
| Surge Protection Level                             | TYPE II(DC), TYPE II(AC)                               |      |                      |                        |
| Interface                                          |                                                        |      |                      |                        |
| Communication Interface                            | RS485                                                  |      |                      |                        |
| Monitor Mode                                       | GPRS/WIFI/Bluetooth/4G/LAN(optional)                   |      |                      |                        |
| General Data                                       |                                                        |      |                      |                        |
| Operating Temperature Range (°C)                   | -25 to +60°C, >45°C Derating                           |      |                      |                        |
| Permissible Ambient Humidity                       | 0-100%                                                 |      |                      |                        |
| Permissible Altitude (m)                           | 3000m                                                  |      |                      |                        |
| Noise (dB)                                         | ≤35                                                    |      |                      |                        |
| Ingress Protection(IP) Rating                      | IP 65                                                  |      |                      |                        |
| Inverter Topology                                  | Transformerless                                        |      |                      |                        |
| Over Voltage Category                              | OVC II(DC), OVC III(AC)                                |      |                      |                        |
| Cabinet Size (WxHxD mm)                            | 330×410×213.5 (Excluding Connectors and Brackets)      |      |                      |                        |
| Weight (kg)                                        | 14.8                                                   |      |                      |                        |
| Warranty                                           | 10 Years                                               |      |                      |                        |
| Type of Cooling                                    | Natural Cooling                                        |      |                      |                        |
| Grid Regulation                                    | AS/NZS 4777.2                                          |      |                      |                        |
| Safety EMC/Standard                                | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2 |      |                      |                        |

# Three Phase String Inverter

SUN-3/5/6/8/10/12K-G05-AU



2 MPP trackers, Max. efficiency up to 98.3%



Zero export application, VSG application



String intelligent monitoring (optional)



Wide output voltage range



Anti-PID function (Optional)

## Technical Data

| Model                                              | SUN-3K<br>-G05-AU                                      | SUN-5K<br>-G05-AU | SUN-6K<br>-G05-AU | SUN-8K<br>-G05-AU | SUN-10K<br>-G05-AU | SUN-12K<br>-G05-AU |
|----------------------------------------------------|--------------------------------------------------------|-------------------|-------------------|-------------------|--------------------|--------------------|
| PV String Input Data                               |                                                        |                   |                   |                   |                    |                    |
| Max. PV Input Power (kW)                           | 4.5                                                    | 7.5               | 9                 | 12                | 15                 | 18                 |
| Max. PV Input Voltage (V)                          | 1000                                                   |                   |                   |                   |                    |                    |
| Start-up Voltage (V)                               | 140                                                    |                   |                   |                   |                    | 250                |
| MPPT Voltage Range (V)                             | 120-850                                                |                   |                   |                   |                    | 200~850            |
| Rated PV Input Voltage (V)                         | 600                                                    |                   |                   |                   |                    |                    |
| Max. Operating PV Input Current (A)                | 13+13                                                  |                   |                   |                   |                    |                    |
| Max. Input Short Circuit Current (A)               | 19.5+19.5                                              |                   |                   |                   |                    |                    |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 2/1                                                    |                   |                   |                   |                    |                    |
| AC Output Data                                     |                                                        |                   |                   |                   |                    |                    |
| Rated AC Output Active Power(kW)                   | 3                                                      | 5                 | 6                 | 8                 | 10                 | 12                 |
| Max. AC Output Apparent Power(kVA)                 | 3                                                      | 5                 | 6                 | 8                 | 10                 | 12                 |
| Rated AC Output current (A)                        | 4.3                                                    | 7.2               | 7.8               | 11.6              | 14.5               | 17.4               |
| Max. AC Output Current(A)                          | 4.3                                                    | 7.2               | 7.8               | 11.6              | 14.5               | 17.4               |
| Rated Output voltage/range (V)                     | 230V/400V 240V/415V 0.85Un-1.1Un                       |                   |                   |                   |                    |                    |
| Grid Connection Form                               | 3L/N/PE                                                |                   |                   |                   |                    |                    |
| Rated Output Grid Frequency/range(Hz)              | 50Hz/45Hz-55Hz                                         |                   |                   |                   |                    |                    |
| Power Factor Adjustment Range                      | 0.8 leading to 0.8 lagging                             |                   |                   |                   |                    |                    |
| Total Current Harmonic Distortion THDi             | <3%                                                    |                   |                   |                   |                    |                    |
| DC Injection Current                               | <0.5In                                                 |                   |                   |                   |                    |                    |
| Efficiency                                         |                                                        |                   |                   |                   |                    |                    |
| Max. Efficiency                                    | 98.1%                                                  | 98.2%             |                   | 98.3%             |                    |                    |
| Euro Efficiency                                    | 97.5%                                                  | 97.6%             |                   | 97.8%             |                    |                    |
| MPPT Efficiency                                    | >99%                                                   |                   |                   |                   |                    |                    |
| Equipment Protection                               |                                                        |                   |                   |                   |                    |                    |
| DC Polarity Reverse Connection Protection          | Yes                                                    |                   |                   |                   |                    |                    |
| AC Output Overcurrent Protection                   | Yes                                                    |                   |                   |                   |                    |                    |
| AC Output Overvoltage Protection                   | Yes                                                    |                   |                   |                   |                    |                    |
| AC Output Short Circuit Protection                 | Yes                                                    |                   |                   |                   |                    |                    |
| Thermal Protection                                 | Yes                                                    |                   |                   |                   |                    |                    |
| DC Terminal Insulation Impedance Monitoring        | Yes                                                    |                   |                   |                   |                    |                    |
| DC Component Monitoring                            | Yes                                                    |                   |                   |                   |                    |                    |
| Ground Fault Current Monitoring                    | Yes                                                    |                   |                   |                   |                    |                    |
| Arc Fault Circuit Interrupter (AFCI)               | Optional                                               |                   |                   |                   |                    |                    |
| Power Network Monitoring                           | Yes                                                    |                   |                   |                   |                    |                    |
| Island Protection Monitoring                       | Yes                                                    |                   |                   |                   |                    |                    |
| Earth Fault Detection                              | Yes                                                    |                   |                   |                   |                    |                    |
| Overvoltage Load Drop Protection                   | Yes                                                    |                   |                   |                   |                    |                    |
| Residual Current (RCD) Detection                   | Yes                                                    |                   |                   |                   |                    |                    |
| Surge Protection Level                             | TYPE II(DC), TYPE II(AC)                               |                   |                   |                   |                    |                    |
| Interface                                          |                                                        |                   |                   |                   |                    |                    |
| Communication Interface                            | RS485/RS232/CAN                                        |                   |                   |                   |                    |                    |
| Monitor Mode                                       | GPRS/WIFI/Bluetooth/4G/LAN(optional)                   |                   |                   |                   |                    |                    |
| General Data                                       |                                                        |                   |                   |                   |                    |                    |
| Operating Temperature Range (°C)                   | -25 to +65°C, >45°C Derating                           |                   |                   |                   |                    |                    |
| Permissible Ambient Humidity                       | 0-100%                                                 |                   |                   |                   |                    |                    |
| Permissible Altitude (m)                           | 4000m                                                  |                   |                   |                   |                    |                    |
| Noise (dB)                                         | ≤ 30 dB(A)                                             |                   |                   |                   |                    |                    |
| Ingress Protection(IP) Rating                      | IP 65                                                  |                   |                   |                   |                    |                    |
| Inverter Topology                                  | Transformerless                                        |                   |                   |                   |                    |                    |
| Over Voltage Category                              | OVC II(DC), OVC III(AC)                                |                   |                   |                   |                    |                    |
| Cabinet Size ( mm)                                 | 332W×457H×203D (Excluding Connectors and Brackets)     |                   |                   |                   |                    |                    |
| Weight (kg)                                        | 11                                                     |                   |                   |                   |                    |                    |
| Warranty                                           | 10 Years                                               |                   |                   |                   |                    |                    |
| Type of Cooling                                    | Natural Cooling                                        |                   |                   |                   |                    |                    |
| Grid Regulation                                    | AS/NZS 4777.2                                          |                   |                   |                   |                    |                    |
| Safety EMC/Standard                                | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2 |                   |                   |                   |                    |                    |

# Three Phase String Inverter

SUN-15K-G05-AU



2 MPP trackers, Max. efficiency up to 98.5%



Zero export application, VSG application



String intelligent monitoring (optional)



Wide output voltage range



Anti-PID function (Optional)

## Technical Data

| Model                                              | SUN-15K-G05-AU                                         |           |              |
|----------------------------------------------------|--------------------------------------------------------|-----------|--------------|
| PV String Input Data                               |                                                        |           |              |
| Max. PV Input Power (kW)                           | 22.5                                                   |           |              |
| Max. PV Input Voltage (V)                          | 1000                                                   |           |              |
| Start-up Voltage (V)                               | 250                                                    |           |              |
| MPPT Voltage Range (V)                             | 200-850                                                |           |              |
| Rated PV Input Voltage (V)                         | 600                                                    |           |              |
| Max. Operating PV Input Current (A)                | 13+26                                                  |           |              |
| Max. Input Short Circuit Current (A)               | 19.5+39                                                |           |              |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 2/1+2                                                  |           |              |
| AC Output Data                                     |                                                        |           |              |
| Rated AC Output Active Power(kW)                   | 15                                                     |           |              |
| Max. AC Output Apparent Power(kVA)                 | 15                                                     |           |              |
| Rated AC Output current (A)                        | 21.7                                                   |           |              |
| Max. AC Output Current(A)                          | 21.7                                                   |           |              |
| Rated Output voltage/range (V)                     | 230V/400V                                              | 240V/415V | 0.85Un-1.1Un |
| Grid Connection Form                               | 3L/N/PE                                                |           |              |
| Rated Output Grid Frequency/range(Hz)              | 50Hz/45Hz-55Hz                                         |           |              |
| Power Factor Adjustment Range                      | 0.8 leading to 0.8 lagging                             |           |              |
| Total Current Harmonic Distortion THDi             | <3%                                                    |           |              |
| DC Injection Current                               | <0.5%In                                                |           |              |
| Efficiency                                         |                                                        |           |              |
| Max. Efficiency                                    | 98.5%                                                  |           |              |
| Euro Efficiency                                    | 98.0%                                                  |           |              |
| MPPT Efficiency                                    | >99%                                                   |           |              |
| Equipment Protection                               |                                                        |           |              |
| DC Polarity Reverse Connection Protection          | Yes                                                    |           |              |
| AC Output Overcurrent Protection                   | Yes                                                    |           |              |
| AC Output Overvoltage Protection                   | Yes                                                    |           |              |
| AC Output Short Circuit Protection                 | Yes                                                    |           |              |
| Thermal Protection                                 | Yes                                                    |           |              |
| DC Terminal Insulation Impedance Monitoring        | Yes                                                    |           |              |
| DC Component Monitoring                            | Yes                                                    |           |              |
| Ground Fault Current Monitoring                    | Yes                                                    |           |              |
| Arc Fault Circuit Interrupter (AFCI)               | Optional                                               |           |              |
| Power Network Monitoring                           | Yes                                                    |           |              |
| Island Protection Monitoring                       | Yes                                                    |           |              |
| Earth Fault Detection                              | Yes                                                    |           |              |
| Overvoltage Load Drop Protection                   | Yes                                                    |           |              |
| Residual Current (RCD) Detection                   | Yes                                                    |           |              |
| Surge Protection Level                             | TYPE II(DC), TYPE II(AC)                               |           |              |
| Interface                                          |                                                        |           |              |
| Communication Interface                            | RS485/RS232/CAN                                        |           |              |
| Monitor Mode                                       | GPRS/WIFI/Bluetooth/4G/LAN(optional)                   |           |              |
| General Data                                       |                                                        |           |              |
| Operating Temperature Range (°C)                   | -25 to +65°C, >45°C Derating                           |           |              |
| Permissible Ambient Humidity                       | 0-100%                                                 |           |              |
| Permissible Altitude (m)                           | 4000m                                                  |           |              |
| Noise (dB)                                         | ≤ 40 dB(A)                                             |           |              |
| Ingress Protection(IP) Rating                      | IP 65                                                  |           |              |
| Inverter Topology                                  | Transformerless                                        |           |              |
| Over Voltage Category                              | OVC II(DC), OVC III(AC)                                |           |              |
| Cabinet Size ( mm)                                 | 332W×472H×203D (Excluding Connectors and Brackets)     |           |              |
| Weight (kg)                                        | 15                                                     |           |              |
| Warranty                                           | 10 Years                                               |           |              |
| Type of Cooling                                    | Natural Cooling                                        |           |              |
| Grid Regulation                                    | AS/NZS 4777.2                                          |           |              |
| Safety EMC/Standard                                | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2 |           |              |

# Three Phase String Inverter

SUN-18/20/22/23/25K-G05-AU



2 MPP trackers, Max. efficiency up to 98.6%



Zero export application, VSG application



String intelligent monitoring (optional)



Wide output voltage range



Anti-PID function (Optional)

## Technical Data

| Model                                              | SUN-18K-G05-AU                                         | SUN-20K-G05-AU | SUN-22K-G05-AU | SUN-23K-G05-AU | SUN-25K-G05-AU |
|----------------------------------------------------|--------------------------------------------------------|----------------|----------------|----------------|----------------|
| PV String Input Data                               |                                                        |                |                |                |                |
| Max. PV Input Power (kW)                           | 27                                                     | 30             | 33             | 34.5           | 37.5           |
| Max. PV Input Voltage (V)                          | 1000                                                   |                |                |                |                |
| Start-up Voltage (V)                               | 250                                                    |                |                |                |                |
| MPPT Voltage Range (V)                             | 200-850                                                |                |                |                |                |
| Rated PV Input Voltage (V)                         | 600                                                    |                |                |                |                |
| Max. Operating PV Input Current (A)                | 26+26                                                  |                |                |                |                |
| Max. Input Short Circuit Current (A)               | 39+39                                                  |                |                |                |                |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 2/2+2                                                  |                |                |                |                |
| AC Output Data                                     |                                                        |                |                |                |                |
| Rated AC Output Active Power(kW)                   | 18                                                     | 20             | 22             | 23             | 25             |
| Max. AC Output Apparent Power(kVA)                 | 18                                                     | 20             | 22             | 23             | 25             |
| Rated AC Output current (A)                        | 26.1                                                   | 29             | 31.9           | 33.4           | 36.2           |
| Max. AC Output Current(A)                          | 26.1                                                   | 29             | 31.9           | 33.4           | 36.2           |
| Rated Output voltage/range (V)                     | 230V/400V 240V/415V 0.85Un-1.1Un                       |                |                |                |                |
| Grid Connection Form                               | 3L/N/PE                                                |                |                |                |                |
| Rated Output Grid Frequency/range(Hz)              | 50Hz/45Hz-55Hz                                         |                |                |                |                |
| Power Factor Adjustment Range                      | 0.8 leading to 0.8 lagging                             |                |                |                |                |
| Total Current Harmonic Distortion THDi             | <3%                                                    |                |                |                |                |
| DC Injection Current                               | <0.5%In                                                |                |                |                |                |
| Efficiency                                         |                                                        |                |                |                |                |
| Max. Efficiency                                    | 98.5%                                                  |                |                |                |                |
| Euro Efficiency                                    | 98%                                                    |                |                |                |                |
| MPPT Efficiency                                    | >99%                                                   |                |                |                |                |
| Equipment Protection                               |                                                        |                |                |                |                |
| DC Polarity Reverse Connection Protection          | Yes                                                    |                |                |                |                |
| AC Output Overcurrent Protection                   | Yes                                                    |                |                |                |                |
| AC Output Overvoltage Protection                   | Yes                                                    |                |                |                |                |
| AC Output Short Circuit Protection                 | Yes                                                    |                |                |                |                |
| Thermal Protection                                 | Yes                                                    |                |                |                |                |
| DC Terminal Insulation Impedance Monitoring        | Yes                                                    |                |                |                |                |
| DC Component Monitoring                            | Yes                                                    |                |                |                |                |
| Ground Fault Current Monitoring                    | Yes                                                    |                |                |                |                |
| Arc Fault Circuit Interrupter (AFCI)               | Optional                                               |                |                |                |                |
| Power Network Monitoring                           | Yes                                                    |                |                |                |                |
| Island Protection Monitoring                       | Yes                                                    |                |                |                |                |
| Earth Fault Detection                              | Yes                                                    |                |                |                |                |
| Overvoltage Load Drop Protection                   | Yes                                                    |                |                |                |                |
| Residual Current (RCD) Detection                   | Yes                                                    |                |                |                |                |
| Surge Protection Level                             | TYPE II(DC), TYPE II(AC)                               |                |                |                |                |
| Interface                                          |                                                        |                |                |                |                |
| Communication Interface                            | RS485/RS232/CAN                                        |                |                |                |                |
| Monitor Mode                                       | GPRS/WIFI/Bluetooth/4G/LAN(optional)                   |                |                |                |                |
| General Data                                       |                                                        |                |                |                |                |
| Operating Temperature Range (°C)                   | -25 to +65°C, >45°C Derating                           |                |                |                |                |
| Permissible Ambient Humidity                       | 0-100%                                                 |                |                |                |                |
| Permissible Altitude (m)                           | 4000m                                                  |                |                |                |                |
| Noise (dB)                                         | ≤ 50 dB(A)                                             |                |                |                |                |
| Ingress Protection(IP) Rating                      | IP 65                                                  |                |                |                |                |
| Inverter Topology                                  | Transformerless                                        |                |                |                |                |
| Over Voltage Category                              | OVC II(DC), OVC III(AC)                                |                |                |                |                |
| Cabinet Size ( mm)                                 | 362W×527H×220D (Excluding Connectors and Brackets)     |                |                |                |                |
| Weight (kg)                                        | 20                                                     |                |                |                |                |
| Warranty                                           | 10 Years                                               |                |                |                |                |
| Type of Cooling                                    | Natural Cooling                                        |                |                |                |                |
| Grid Regulation                                    | AS/NZS 4777.2                                          |                |                |                |                |
| Safety EMC/Standard                                | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2 |                |                |                |                |

# Single Phase Hybrid Inverter

SUN-3/3.6/5/6K-SG04LP1-AU



-  Colorful touch LCD, IP65 protection degree
-  AC couple to retrofit existing solar system
-  Max. 16pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel
-  Max. charging/discharging current of 135A
-  6 time periods for battery charging/discharging
-  Support storing energy from diesel generator

## Technical Data

| Model                                              | SUN-3K<br>-SG04LP1-24-AU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | SUN-3K<br>-SG04LP1-AU | SUN-3.6K<br>-SG04LP1-AU | SUN-5K<br>-SG04LP1-AU | SUN-6K<br>-SG04LP1-AU   |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------|-----------------------|-------------------------|
| Battery Input Data                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                         |                       |                         |
| Battery Type                                       | Lead-acid or Lithium-ion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       |                         |                       |                         |
| Battery Voltage Range (V)                          | 20-30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 40-60                 |                         |                       |                         |
| Max. Charging Current (A)                          | 140                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 70                    | 90                      | 120                   | 135                     |
| Max. Discharging Current (A)                       | 140                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 70                    | 90                      | 120                   | 135                     |
| Charging Strategy for Li-Ion Battery               | Self-adaption to BMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                       |                         |                       |                         |
| Number of Battery Input                            | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                         |                       |                         |
| PV String Input Data                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                         |                       |                         |
| Max. PV access power(W)                            | 6000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6000                  | 7200                    | 10000                 | 12000                   |
| Max. DC Input Power (W)                            | 4500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 4500                  | 5400                    | 7500                  | 9000                    |
| Rated PV Input Voltage (V)                         | 500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                         |                       |                         |
| Start-up Voltage (V)                               | 125                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                         |                       |                         |
| MPPT Voltage Range (V)                             | 150-425                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       |                         |                       |                         |
| Rated DC Input Voltage(V)                          | 370                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                         |                       |                         |
| Max. Operating PV Input Current (A)                | 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 13+13                 |                         |                       |                         |
| Max. Input Short-Circuit Current (A)               | 19.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 19.5+19.5             |                         |                       |                         |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 1/1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2/1+1                 |                         |                       |                         |
| AC Output Data                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                         |                       |                         |
| Rated AC Output Active Power (W)                   | 3000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                       | 3600                    | 5000                  | 6000                    |
| Max AC Output Active Power (W)                     | 3000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                       | 3600                    | 5000                  | 6000                    |
| AC Output Rated Current (A)                        | 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                       | 15.7                    | 21.7                  | 26.1                    |
| Max. AC Output Current (A)                         | 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                       | 15.7                    | 21.7                  | 26.1                    |
| Max. Continuous AC Passthrough (A)                 | 35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                       |                         |                       | 40                      |
| Peak Power (off grid)                              | 2 time of rated power, 10 S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                       |                         |                       |                         |
| Power Factor Adjustment Range                      | 0.8 leading to 0.8 lagging                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                       |                         |                       |                         |
| Rated Input/Output Voltage/Range (V)               | 230 /240 0.85Un-1.1Un                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                         |                       |                         |
| Rated Input/Output Grid Frequency/Range            | 50Hz/45Hz-55Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                       |                         |                       |                         |
| Grid Connection Form                               | L+N+PE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                         |                       |                         |
| Total Harmonics Current Distortion (THDi)          | <3% (of nominal power)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                         |                       |                         |
| DC Current Injection                               | <0.5% In                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       |                         |                       |                         |
| Efficiency                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                         |                       |                         |
| Max. Efficiency                                    | 97.60%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                         |                       |                         |
| Euro Efficiency                                    | 96.50%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                         |                       |                         |
| MPPT Efficiency                                    | >99%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                       |                         |                       |                         |
| Protection                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                         |                       |                         |
| Integrated                                         | DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Overvoltage Load Drop Protection, Ground Fault Current Monitoring, Arc Fault Circuit Interrupter (optional), Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Input Switch, DC Terminal Insulation Impedance Monitoring, Residual Current (RCD) Detection, Surge protection level |                       |                         |                       |                         |
| Surge Protection Level                             | TYPE II(DC), TYPE II(AC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       |                         |                       |                         |
| Interface                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                         |                       |                         |
| Communication Interface                            | RS485/CAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                       |                         |                       |                         |
| Monitor Mode                                       | GPRS/WIFI/Bluetooth/4G/LAN(optional)                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                       |                         |                       |                         |
| General Data                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                         |                       |                         |
| Operating Temperature Range ( )                    | -40 to +60℃, >45℃ derating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                       |                         |                       |                         |
| Permissible Ambient Humidity                       | 0-100%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                         |                       |                         |
| Permissible Altitude                               | 2000m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                         |                       |                         |
| Noise (dB)                                         | <30 dB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                         |                       |                         |
| Inverter Topology (solar/battery)                  | Transformerless/ HF Transformer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                         |                       |                         |
| Over Voltage Category                              | OVC II(DC), OVC III(AC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       |                         |                       |                         |
| Weight (kg)                                        | 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                       |                         |                       |                         |
| Cabinet size (mm)                                  | 330W x 433H x229D (Excluding connectors and brackets)                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                         |                       |                         |
| Protection Degree                                  | IP65                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                       |                         |                       |                         |
| Type of Cooling                                    | natural cooling                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                         |                       | Intelligent Air Cooling |
| Warranty                                           | 10 Years                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       |                         |                       |                         |
| Grid Regulation                                    | AS/NZS 4777.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                         |                       |                         |
| Safety EMC / Standard                              | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                         |                       |                         |

# Single Phase Hybrid Inverter

SUN-8K-SG05LP1-AU



Colorful touch LCD, IP65 protection degree



AC couple to retrofit existing solar system



Max. 16pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel



Max. charging/discharging current of 190A



6 time periods for battery charging/discharging



Support storing energy from diesel generator

## Technical Data

| Model                                              | SUN-8K-SG05LP1-AU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <strong>Battery Input Data</strong>                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Battery Type                                       | Lead-acid or Lithium-ion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Battery Voltage Range (V)                          | 40-60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Max. Charging Current (A)                          | 190                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Max. Discharging Current (A)                       | 190                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Charging Strategy for Li-Ion Battery               | Self-adaption to BMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Number of Battery Input                            | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <strong>PV String Input Data</strong>              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Max. PV access power(W)                            | 16000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Max. DC Input Power (W)                            | 12000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Rated PV Input Voltage (V)                         | 500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Start-up Voltage (V)                               | 125                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| MPPT Voltage Range (V)                             | 150-425                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Rated DC Input Voltage(V)                          | 370                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Max. Operating PV Input Current (A)                | 26+26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Max. Input Short-Circuit Current (A)               | 39+39                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 2/2+2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <strong>AC Output Data</strong>                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Rated AC Output Active Power (W)                   | 8000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Max AC Output Active Power (W)                     | 8000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| AC Output Rated Current (A)                        | 34.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Max. AC Output Current (A)                         | 34.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Max. Continuous AC Passthrough (A)                 | 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Peak Power (off grid)                              | 2 time of rated power, 10 S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Power Factor Adjustment Range                      | 0.8 leading to 0.8 lagging                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Rated Input/Output Voltage/Range (V)               | 230 /240 0.85Un-1.1Un                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Rated Input/Output Grid Frequency/Range            | 50Hz/45Hz-55Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Grid Connection Form                               | L+N+PE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Total Harmonics Current Distortion (THDi)          | <3% (of nominal power)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| DC Current Injection                               | <0.5% In                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <strong>Efficiency</strong>                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Max. Efficiency                                    | 97.60%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Euro Efficiency                                    | 96.50%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| MPPT Efficiency                                    | >99%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <strong>Protection</strong>                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Integrated                                         | DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Overvoltage Load Drop Protection, Ground Fault Current Monitoring, Arc Fault Circuit Interrupter (optional), Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Input Switch, DC Terminal Insulation Impedance Monitoring, Residual Current (RCD) Detection, Surge protection level |
| Surge Protection Level                             | TYPE II(DC), TYPE II(AC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <strong>Interface</strong>                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Communication Interface                            | RS485/CAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Monitor Mode                                       | GPRS/WIFI/Bluetooth/4G/LAN(optional)                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <strong>General Data</strong>                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Operating Temperature Range ( )                    | -40 to +60°C, >45°C derating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Permissible Ambient Humidity                       | 0-100%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Permissible Altitude                               | 2000m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Noise (dB)                                         | <30 dB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Inverter Topology (solar/battery)                  | Transformerless/ HF Transformer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Over Voltage Category                              | OVC II(DC), OVC III(AC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Weight (kg)                                        | 24.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Cabinet size (mm)                                  | 330W x 580H x232D ( Excluding connectors and brackets)                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Protection Degree                                  | IP65                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Type of Cooling                                    | Intelligent Air Cooling                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Warranty                                           | 10 Years                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Grid Regulation                                    | AS/NZS 4777.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Safety EMC / Standard                              | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

# Single Phase Hybrid Inverter

SUN-10/12K-SG02LP1-AU-AM3



-  Colorful touch LCD, IP65 protection degree
-  AC couple to retrofit existing solar system
- 16

 Max. 16 pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel
- 250

 Max. charging/discharging current of 250A
- 6

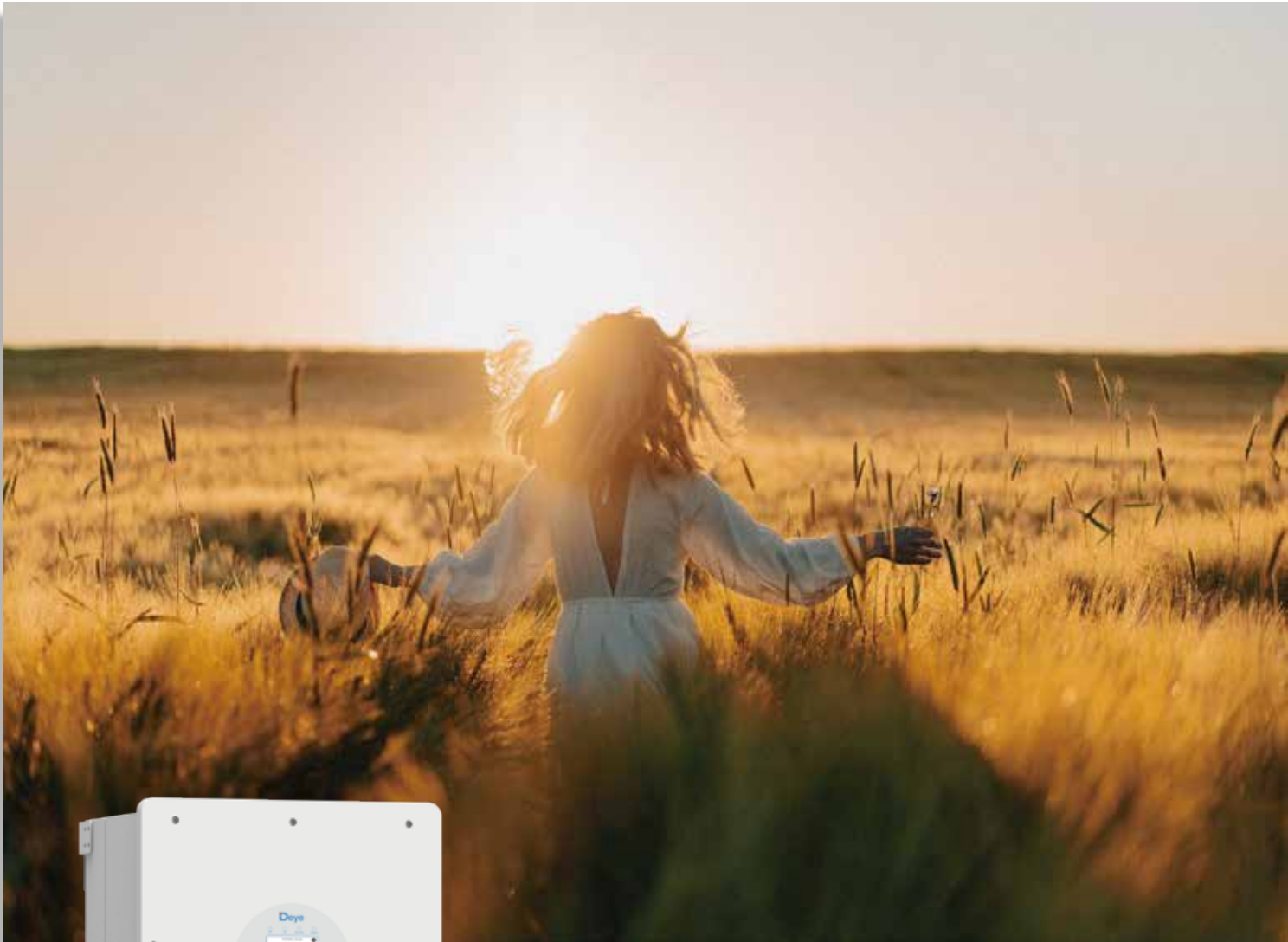
 6 time periods for battery charging/discharging
-  Support storing energy from diesel generator

## Technical Data

| Model                                              | SUN-10K-SG02<br>LP1-AU-AM3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | SUN-12K-SG02<br>LP1-AU-AM3 |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| Battery Input Data                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |
| Battery Type                                       | Lead-acid or Lithium-ion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                            |
| Battery Voltage Range (V)                          | 40-60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |
| Max. Charging Current (A)                          | 220                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 250                        |
| Max. Discharging Current (A)                       | 220                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 250                        |
| Charging Strategy for Li-Ion Battery               | Self-adaption to BMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                            |
| Number of Battery Input                            | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                            |
| PV String Input Data                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |
| Max. PV access power(W)                            | 20000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 24000                      |
| Max. DC Input Power (W)                            | 15000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 18000                      |
| Rated PV Input Voltage (V)                         | 500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |
| Start-up Voltage (V)                               | 125                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |
| MPPT Voltage Range (V)                             | 150-425                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                            |
| Rated DC Input Voltage(V)                          | 370                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |
| Max. Operating PV Input Current (A)                | 26+26+26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                            |
| Max. Input Short-Circuit Current (A)               | 44+44+44                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                            |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 3/2+2+2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                            |
| AC Output Data                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |
| Rated AC Output Active Power (W)                   | 9999                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 12000                      |
| Max. AC Input/Output Apparent Power (VA)           | 9999                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 12000                      |
| AC Output Rated Current (A)                        | 43.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 52.2                       |
| Max. AC Output Current (A)                         | 43.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 52.2                       |
| Max. Continuous AC Passthrough (A)                 | 60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                            |
| Peak Power (off grid)                              | 2 time of rated power, 10 S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                            |
| Power Factor Adjustment Range                      | 0.8 leading to 0.8 lagging                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                            |
| Rated Input/Output Voltage/Range (V)               | 230 /240 0.85Un-1.1Un                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |
| Rated Input/Output Grid Frequency/Range            | 50Hz/45Hz-55Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                            |
| Grid Connection Form                               | L+N+PE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |
| Total Harmonics Current Distortion (THDi)          | <3% (of nominal power)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |
| DC Current Injection                               | <0.5% In                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                            |
| Efficiency                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |
| Max. Efficiency                                    | 97.60%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |
| Euro Efficiency                                    | 96.50%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |
| MPPT Efficiency                                    | >99%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                            |
| Protection                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |
| Integrated                                         | DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Overvoltage Load Drop Protection, Ground Fault Current Monitoring, Arc Fault Circuit Interrupter (optional), Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Input Switch, DC Terminal Insulation Impedance Monitoring, Residual Current (RCD) Detection, Surge protection level |                            |
| Surge Protection Level                             | TYPE II(DC), TYPE II(AC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                            |
| Interface                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |
| Communication Interface                            | RS485/CAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                            |
| Monitor Mode                                       | GPRS/WIFI/Bluetooth/4G/LAN(optional)                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                            |
| General Data                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |
| Operating Temperature Range ( )                    | -40 to +60°C, >45°C derating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                            |
| Permissible Ambient Humidity                       | 0-100%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |
| Permissible Altitude                               | 2000m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |
| Noise (dB)                                         | <45 dB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |
| Inverter Topology (solar/battery)                  | Transformerless/ HF Transformer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |
| Over Voltage Category                              | OVC II(DC), OVC III(AC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                            |
| Weight (kg)                                        | 35.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                            |
| Cabinet size (mm)                                  | 420W×670H×233 D (Excluding connectors and brackets)                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |
| Protection Degree                                  | IP65                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                            |
| Type of Cooling                                    | Intelligent Air Cooling                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                            |
| Warranty                                           | 10 Year                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                            |
| Grid Regulation                                    | AS/NZS 4777.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |
| Safety / EMC Standard                              | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |

# Single Phase Hybrid Inverter

SUN-12/14/16K-SG01LP1-AU



Colorful touch LCD, IP65 protection degree



AC couple to retrofit existing solar system



Max. 16pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel



Max. charging/discharging current of 290A



6 time periods for battery charging/discharging



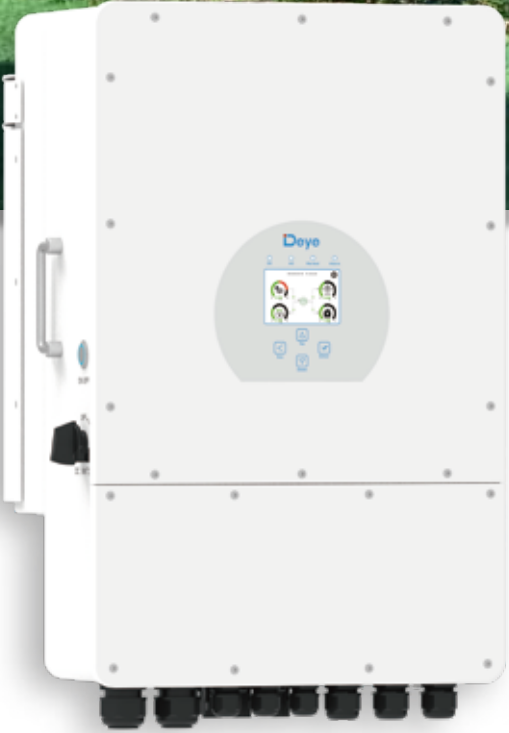
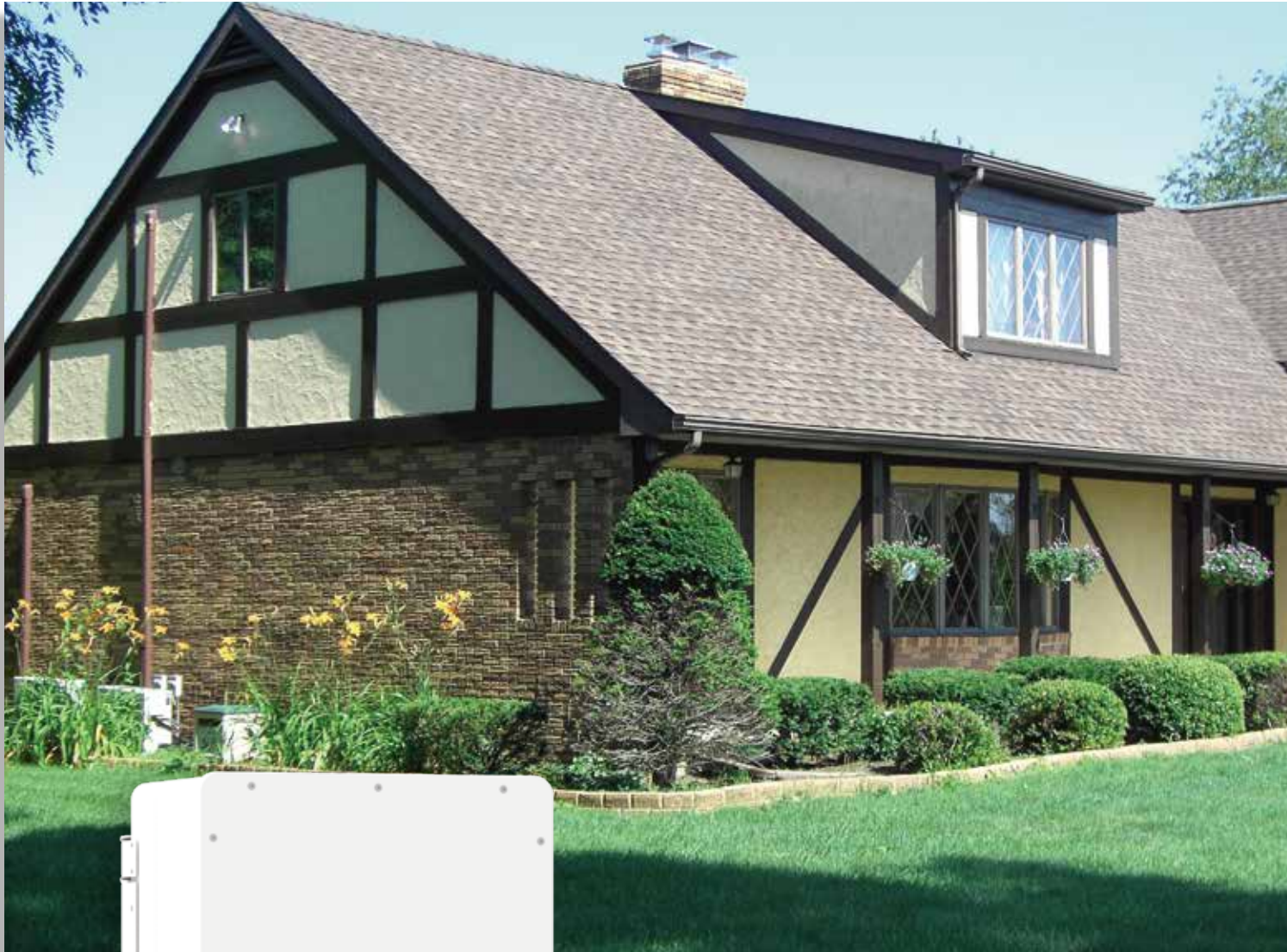
Support storing energy from diesel generator

## Technical Data

| Model                                              | SUN-12K<br>-SG01LP1-AU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | SUN-14K<br>-SG01LP1-AU | SUN-16K<br>-SG01LP1-AU |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------|
| Battery Input Data                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                        |                        |
| Battery Type                                       | Lead-acid or Lithium-ion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                        |                        |
| Battery Voltage Range (V)                          | 40-60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                        |                        |
| Max. Charging Current (A)                          | 220                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 250                    | 290                    |
| Max. Discharging Current (A)                       | 220                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 250                    | 290                    |
| Charging Strategy for Li-Ion Battery               | Self-adaption to BMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |                        |
| Number of Battery Input                            | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                        |                        |
| PV String Input Data                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                        |                        |
| Max. PV access power(W)                            | 24000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 28000                  | 32000                  |
| Max. DC Input Power (W)                            | 18000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 21000                  | 24000                  |
| Rated PV Input Voltage (V)                         | 500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |                        |
| Start-up Voltage (V)                               | 125                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |                        |
| MPPT Voltage Range (V)                             | 150-425                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |                        |
| Rated DC Input Voltage(V)                          | 370                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |                        |
| Max. Operating PV Input Current (A)                | 26+26+26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                        |                        |
| Max. Input Short-Circuit Current (A)               | 44+44+44                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                        |                        |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 3/2+2+2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |                        |
| AC Output Data                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                        |                        |
| Rated AC Output Active Power (W)                   | 12000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 14000                  | 16000                  |
| Max AC Output Active Power (W)                     | 12000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 14000                  | 16000                  |
| AC Output Rated Current (A)                        | 52.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 60.9                   | 69.6                   |
| Max. AC Output Current (A)                         | 52.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 60.9                   | 69.6                   |
| Max. Continuous AC Passthrough (A)                 | 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |                        |
| Peak Power (off grid)                              | 2 time of rated power, 10 S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                        |                        |
| Power Factor Adjustment Range                      | 0.8 leading to 0.8 lagging                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                        |                        |
| Rated Input/Output Voltage/Range (V)               | 230 /240 0.85Un-1.1Un                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                        |                        |
| Rated Input/Output Grid Frequency/Range            | 50Hz/45Hz-55Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                        |                        |
| Grid Connection Form                               | L+N+PE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |                        |
| Total Harmonics Current Distortion (THDi)          | <3% (of nominal power)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |                        |
| DC Current Injection                               | <0.5% In                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                        |                        |
| Efficiency                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                        |                        |
| Max. Efficiency                                    | 97.60%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |                        |
| Euro Efficiency                                    | 96.50%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |                        |
| MPPT Efficiency                                    | >99%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |                        |
| Protection                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                        |                        |
| Integrated                                         | DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Overvoltage Load Drop Protection, Ground Fault Current Monitoring, Arc Fault Circuit Interrupter (optional), Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Input Switch, DC Terminal Insulation Impedance Monitoring, Residual Current (RCD) Detection, Surge protection level |                        |                        |
| Surge Protection Level                             | TYPE II(DC), TYPE II(AC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                        |                        |
| Interface                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                        |                        |
| Communication Interface                            | RS485/CAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |                        |
| Monitor Mode                                       | GPRS/WIFI/Bluetooth/4G/LAN(optional)                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |                        |
| General Data                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                        |                        |
| Operating Temperature Range ( )                    | -40 to +60°C, >45°C derating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                        |                        |
| Permissible Ambient Humidity                       | 0-100%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |                        |
| Permissible Altitude                               | 2000m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                        |                        |
| Noise (dB)                                         | <50 dB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |                        |
| Inverter Topology (solar/battery)                  | Transformerless/ HF Transformer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                        |                        |
| Over Voltage Category                              | OVC II(DC), OVC III(AC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |                        |
| Weight (kg)                                        | 48                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |                        |
| Cabinet size (mm)                                  | 464W x 763H x282D (Excluding connectors and brackets)                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                        |                        |
| Protection Degree                                  | IP65                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |                        |
| Type of Cooling                                    | Intelligent Air Cooling                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |                        |
| Warranty                                           | 10 Years                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                        |                        |
| Grid Regulation                                    | AS/NZS 4777.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                        |                        |
| Safety EMC / Standard                              | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |                        |

# Three Phase Hybrid Inverter

SUN-5/6/8/10/12K-SG04LP3-AU



- 100

100% unbalanced output, each phase; Max. output up to 50% rated power
- AC

AC couple to retrofit existing solar system
- 10

Max. 10pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel
- 240

Max. charging/discharging current of 240A
- 48

48V low voltage battery, transformer isolation design
- 6

6 time periods for battery charging/discharging
- Generator

Support storing energy from diesel generator

## Technical Data

| Model                                              | SUN-5K<br>-SG04LP3-AU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SUN-6K<br>-SG04LP3-AU | SUN-8K<br>-SG04LP3-AU | SUN-10K<br>-SG04LP3-AU | SUN-12K<br>-SG04LP3-AU |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|------------------------|------------------------|
| Battery Input Data                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                       |                        |                        |
| Battery Type                                       | Lead-acid or Lithium-ion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       |                       |                        |                        |
| Battery Voltage Range (V)                          | 40-60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                       |                        |                        |
| Max. Charging Current (A)                          | 120                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 150                   | 190                   | 210                    | 240                    |
| Max. Discharging Current (A)                       | 120                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 150                   | 190                   | 210                    | 240                    |
| Charging Strategy for Li-Ion Battery               | Self-adaption to BMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                       |                       |                        |                        |
| Number of Battery Input                            | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                       |                        |                        |
| PV String Input Data                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                       |                        |                        |
| Max. PV access power(W)                            | 10000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 12000                 | 16000                 | 20000                  | 24000                  |
| Max. DC Input Power (W)                            | 7500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 9000                  | 12000                 | 15000                  | 18000                  |
| Rated PV Input Voltage (V)                         | 800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                       |                        |                        |
| Start-up Voltage (V)                               | 160                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                       |                        |                        |
| MPPT Voltage Range (V)                             | 200-650                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       |                       |                        |                        |
| Rated DC Input Voltage(V)                          | 550                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                       |                        |                        |
| Max. Operating PV Input Current (A)                | 13+13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                       | 26+13                  |                        |
| Max. Input Short-Circuit Current (A)               | 19.5+19.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                       |                       | 39+19.5                |                        |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 2/1+1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                       | 2/2+1                  |                        |
| AC Output Data                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                       |                        |                        |
| Rated AC Output Active Power (W)                   | 5000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6000                  | 8000                  | 10000                  | 12000                  |
| Max AC Output Active Power (W)                     | 5000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6000                  | 8000                  | 10000                  | 12000                  |
| AC Output Rated Current (A)                        | 7.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 8.7                   | 11.6                  | 14.5                   | 17.4                   |
| Max. AC Output Current (A)                         | 7.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 8.7                   | 11.6                  | 14.5                   | 17.4                   |
| Max. Continuous AC Passthrough (A)                 | 45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                       |                       |                        |                        |
| Peak Power (off grid)                              | 2 time of rated power, 10 S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                       |                       |                        |                        |
| Power Factor Adjustment Range                      | 0.8 leading to 0.8 lagging                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                       |                       |                        |                        |
| Rated Input/Output Voltage/Range (V)               | 230 /240 0.85Un-1.1Un                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                       |                        |                        |
| Rated Input/Output Grid Frequency/Range            | 50Hz/45Hz-55Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                       |                       |                        |                        |
| Grid Connection Form                               | 3L+N+PE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       |                       |                        |                        |
| Total Harmonics Current Distortion (THDi)          | <3% (of nominal power)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                       |                        |                        |
| DC Current Injection                               | <0.5% In                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       |                       |                        |                        |
| Efficiency                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                       |                        |                        |
| Max. Efficiency                                    | 97.60%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                       |                        |                        |
| Euro Efficiency                                    | 97.0%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                       |                        |                        |
| MPPT Efficiency                                    | >99%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                       |                       |                        |                        |
| Protection                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                       |                        |                        |
| Integrated                                         | DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Overvoltage Load Drop Protection, Ground Fault Current Monitoring, Arc Fault Circuit Interrupter (optional), Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Input Switch, DC Terminal Insulation Impedance Monitoring, Residual Current (RCD) Detection, Surge protection level |                       |                       |                        |                        |
| Surge Protection Level                             | TYPE II(DC), TYPE II(AC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       |                       |                        |                        |
| Interface                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                       |                        |                        |
| Communication Interface                            | RS485/CAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                       |                       |                        |                        |
| Monitor Mode                                       | GPRS/WIFI/Bluetooth/4G/LAN(optional)                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                       |                       |                        |                        |
| General Data                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                       |                        |                        |
| Operating Temperature Range ( )                    | -40 to +60°C, >45°C derating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                       |                       |                        |                        |
| Permissible Ambient Humidity                       | 0-100%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                       |                        |                        |
| Permissible Altitude                               | 2000m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                       |                        |                        |
| Inverter Topology (solar/battery)                  | Transformerless/ HF Transformer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                       |                        |                        |
| Over Voltage Category                              | OVC II(DC), OVC III(AC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       |                       |                        |                        |
| Noise (dB)                                         | <55 dB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                       |                        |                        |
| Weight (kg)                                        | 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                       |                       |                        |                        |
| Cabinet size (mm)                                  | 422W x 658H x254D (Excluding connectors and brackets)                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                       |                        |                        |
| Protection Degree                                  | IP65                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                       |                       |                        |                        |
| Type of Cooling                                    | Intelligent Air Cooling                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       |                       |                        |                        |
| Warranty                                           | 10 Years                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       |                       |                        |                        |
| Grid Regulation                                    | AS/NZS 4777.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                       |                        |                        |
| Safety EMC / Standard                              | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                       |                        |                        |

# Three Phase Hybrid Inverter

## SUN-14/15/16/18/20K-SG05LP3-AU-SM2



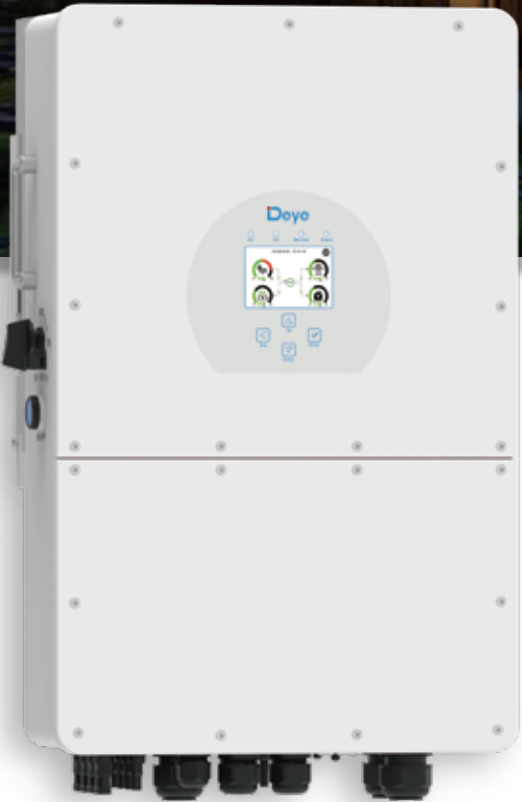
- 100** 100% unbalanced output, each phase; Max. output up to 50% rated power
- AC couple** to retrofit existing solar system
- 10** Max. 10 pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel
- 350** Max. charging/discharging current of 350A
- 48** 48V low voltage battery, transformer isolation design
- 6** 6 time periods for battery charging/discharging
- Support** storing energy from diesel generator

### Technical Data

| Model                                              | SUN-14K-SG05LP3<br>-AU-SM2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | SUN-15K-SG05LP3<br>-AU-SM2 | SUN-16K-SG05LP3<br>-AU-SM2 | SUN-18K-SG05LP3<br>-AU-SM2 | SUN-20K-SG05LP3<br>-AU-SM2 |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Battery Input Data                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |                            |
| Battery Type                                       | Lead-acid or Lithium-ion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                            |                            |                            |                            |
| Battery Voltage Range (V)                          | 40-60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |                            |                            |                            |
| Max. Charging Current (A)                          | 260                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 280                        | 300                        | 330                        | 350                        |
| Max. Discharging Current (A)                       | 260                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 280                        | 300                        | 330                        | 350                        |
| Charging Strategy for Li-ion Battery               | Self-adaption to BMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                            |                            |                            |                            |
| Number of Battery Input                            | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                            |                            |                            |                            |
| PV String Input Data                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |                            |
| Max. PV access power(W)                            | 28000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 30000                      | 32000                      | 36000                      | 40000                      |
| Max. PV Input Power (W)                            | 22400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 24000                      | 25600                      | 28800                      | 32000                      |
| Max. PV Input Voltage (V)                          | 800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |                            |                            |                            |
| Start-up Voltage (V)                               | 160                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |                            |                            |                            |
| MPPT Voltage Range (V)                             | 160-650                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                            |                            |                            |                            |
| Rated PV Input Voltage (V)                         | 550                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |                            |                            |                            |
| Max. Operating PV Input Current (A)                | 36+36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |                            |                            |                            |
| Max. Input Short-Circuit Current (A)               | 54+54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |                            |                            |                            |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 2/2+2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |                            |                            |                            |
| AC Input/Output Data                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |                            |
| Rated AC Input/Output Active Power (W)             | 14000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 15000                      | 16000                      | 18000                      | 20000                      |
| Max. AC Input/Output Apparent Power (VA)           | 14000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 15000                      | 16000                      | 18000                      | 20000                      |
| Rated AC Input/Output Current (A)                  | 20.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 21.8                       | 23.2                       | 26.1                       | 29                         |
| Max. AC Input/Output Current (A)                   | 20.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 21.8                       | 23.2                       | 26.1                       | 29                         |
| Max. Continuous AC Passthrough (grid to load) (A)  | 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                            |                            |                            |                            |
| Peak Power (off-grid) (W)                          | 2 times of rated power, 10s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |                            |
| Power Factor Adjustment Range                      | 0.8 leading to 0.8 lagging                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                            |                            |                            |                            |
| Rated Input/Output Voltage/Range (V)               | 230/400V , 240/415V 0.85Un-1.1Un                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                            |                            |                            |                            |
| Rated Input/Output Grid Frequency/Range(Hz)        | 50/45-55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                            |                            |                            |                            |
| Grid Connection Form                               | 3L+N+PE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                            |                            |                            |                            |
| Total Current Harmonic Distortion THDi             | <3% (of nominal power)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |                            |                            |                            |
| DC Injection Current                               | <0.5% In                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                            |                            |                            |                            |
| Efficiency                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |                            |
| Max. Efficiency                                    | 97.6%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |                            |                            |                            |
| Euro Efficiency                                    | 97.0%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |                            |                            |                            |
| MPPT Efficiency                                    | >99%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                            |                            |                            |                            |
| Equipment Protection                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |                            |
| Integrated                                         | DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Overvoltage Load Drop Protection, Ground Fault Current Monitoring, Arc Fault Circuit Interrupter (optional), Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Input Switch, DC Terminal Insulation Impedance Monitoring, Residual Current (RCD) Detection, Surge protection level |                            |                            |                            |                            |
| Surge Protection Level                             | TYPE II(DC), TYPE II(AC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                            |                            |                            |                            |
| Interface                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |                            |
| Communication Interface                            | RS485/CAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                            |                            |                            |                            |
| Monitor Mode                                       | GPRS/WIFI/Bluetooth/4G/LAN(optional)                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                            |                            |                            |                            |
| General Data                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |                            |
| Operating Temperature Range ( )                    | -40 to +60°C, >45°C Derating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                            |                            |                            |                            |
| Permissible Ambient Humidity                       | 0-100%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |                            |                            |                            |
| Permissible Altitude                               | 3000m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |                            |                            |                            |
| Noise (dB)                                         | <60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |                            |                            |                            |
| Ingress Protection(IP) Rating                      | IP 65                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |                            |                            |                            |
| Inverter Topology (solar/battery)                  | Transformerless/ HF Transformer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |                            |
| Over Voltage Category                              | OVC II(DC), OVC III(AC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                            |                            |                            |                            |
| Cabinet Size (WxHxD mm)                            | 456×750×268.5 (Excluding Connectors and Brackets)                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                            |                            |                            |                            |
| Weight (kg)                                        | 51.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                            |                            |                            |                            |
| Type of Cooling                                    | Intelligent Air Cooling                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                            |                            |                            |                            |
| Warranty                                           | 10 Years                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                            |                            |                            |                            |
| Grid Regulation                                    | AS/NZS 4777.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                            |                            |                            |
| Safety / EMC Standard                              | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |                            |                            |                            |

# Three Phase Hybrid Inverter

## SUN-10/12/15/20/25K-SG01HP3-AU-AM2



- 100

100% unbalanced output
- AC couple to retrofit existing solar system
- 10

Max. 10pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel
- 50

Max. charging/discharging current of 50A
- H

High voltage battery, higher efficiency
- 6

6 time periods for battery charging/discharging
- Support storing energy from diesel generator

### Technical Data

| Model                                              | SUN-10K-SG01<br>HP3-AU-AM2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | SUN-12K-SG01<br>HP3-AU-AM2 | SUN-15K-SG01<br>HP3-AU-AM2 | SUN-20K-SG01<br>HP3-AU-AM2 | SUN-25K-SG01<br>HP3-AU-AM2 |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Battery Input Data                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |                            |
| Battery Type                                       | Lithium-ion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |                            |
| Battery Voltage Range (V)                          | 160-700                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                            |                            |                            |                            |
| Max. Charging Current (A)                          | 37                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                            |                            | 50                         |                            |
| Max. Discharging Current (A)                       | 37                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                            |                            | 50                         |                            |
| Charging Strategy for Li-ion Battery               | Self-adaption to BMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                            |                            |                            |                            |
| Number of Battery Input                            | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                            |                            |                            |                            |
| PV String Input Data                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |                            |
| Max. PV access power(W)                            | 20000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 24000                      | 30000                      | 40000                      | 50000                      |
| Max. PV Input Power (W)                            | 15000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 18000                      | 22500                      | 30000                      | 37500                      |
| Max. PV Input Voltage (V)                          | 1000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                            |                            |                            |                            |
| Start-up Voltage (V)                               | 180                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |                            |                            |                            |
| MPPT Voltage Range (V)                             | 150-850                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                            |                            |                            |                            |
| Rated PV Input Voltage (V)                         | 600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |                            | 700                        |                            |
| Max. Operating PV Input Current (A)                | 20+20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 26+20                      |                            | 26+26                      |                            |
| Max. Input Short-Circuit Current (A)               | 30+30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 39+30                      |                            | 39+39                      |                            |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 2/1+1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2/2+1                      |                            | 2/2+2                      |                            |
| AC Input/Output Data                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |                            |
| Rated AC Input/Output Active Power (W)             | 10000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 12000                      | 15000                      | 20000                      | 25000                      |
| Max. AC Input/Output Apparent Power (VA)           | 10000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 12000                      | 15000                      | 20000                      | 25000                      |
| Rated AC Input/Output Current (A)                  | 14.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 17.4                       | 21.8                       | 29                         | 36.3                       |
| Max. AC Input/Output Current (A)                   | 14.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 17.4                       | 21.8                       | 29                         | 36.3                       |
| Max. Continuous AC Passthrough (grid to load) (A)  | 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 80                         |                            |                            |                            |
| Peak Power (off-grid) (W)                          | 1.5 times of rated power, 10s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                            |                            |                            |
| Power Factor Adjustment Range                      | 0.8 leading to 0.8 lagging                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                            |                            |                            |                            |
| Rated Input/Output Voltage/Range (V)               | 230/400V 240/415V 0.85Un-1.1Un                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                            |                            |                            |                            |
| Rated Input/Output Grid Frequency/Range(Hz)        | 50Hz/45Hz-55Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                            |                            |                            |                            |
| Grid Connection Form                               | 3L+N+PE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                            |                            |                            |                            |
| Total Current Harmonic Distortion THDi             | <3% (of nominal power)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |                            |                            |                            |
| DC Injection Current                               | <0.5% In                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                            |                            |                            |                            |
| Efficiency                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |                            |
| Max. Efficiency                                    | 97.6%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |                            |                            |                            |
| Euro Efficiency                                    | 97.0%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |                            |                            |                            |
| MPPT Efficiency                                    | >99%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                            |                            |                            |                            |
| Equipment Protection                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |                            |
| Integrated                                         | DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Overvoltage Load Drop Protection, Ground Fault Current Monitoring, Arc Fault Circuit Interrupter (optional), Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Input Switch, DC Terminal Insulation Impedance Monitoring, Residual Current (RCD) Detection, Surge protection level |                            |                            |                            |                            |
| Surge Protection Level                             | TYPE II(DC), TYPE II(AC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                            |                            |                            |                            |
| Interface                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |                            |
| Communication Interface                            | RS485/CAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                            |                            |                            |                            |
| Monitor Mode                                       | GPRS/WIFI/Bluetooth/4G/LAN(optional)                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                            |                            |                            |                            |
| General Data                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |                            |
| Operating Temperature Range ( )                    | -40 to +60°C, >45°C Derating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                            |                            |                            |                            |
| Permissible Ambient Humidity                       | 0-100%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |                            |                            |                            |
| Permissible Altitude                               | 2000m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |                            |                            |                            |
| Noise (dB)                                         | ≤55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |                            |                            |                            |
| Ingress Protection(IP) Rating                      | IP 65                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |                            |                            |                            |
| Inverter Topology                                  | Transformerless                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |                            |
| Over Voltage Category                              | OVC II(DC), OVC III(AC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                            |                            |                            |                            |
| Cabinet Size (WxHxD mm)                            | 408×638×237 (Excluding Connectors and Brackets)                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |                            |
| Weight (kg)                                        | 30.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                            |                            |                            |                            |
| Type of Cooling                                    | Intelligent Air Cooling                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                            |                            |                            |                            |
| Warranty                                           | 10 Year                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                            |                            |                            |                            |
| Grid Regulation                                    | AS/NZS 4777.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                            |                            |                            |
| Safety / EMC Standard                              | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |                            |                            |                            |

# Three Phase Hybrid Inverter

SUN-29.9/35K-SG01HP3-AU-BM3  
SUN-40/50K-SG01HP3-AU-BM4



- 100** 100% unbalanced output
- H** High voltage battery, higher efficiency
- AC couple to retrofit existing solar system
- 100** Max. charging/discharging current of 100A
- 10** Max. 10 pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel
- 6** 6 time periods for battery charging/discharging
- Support storing energy from diesel generator

## Technical Data

| Model                                              | SUN-29.9K-SG01HP3<br>-AU-BM3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | SUN-35K-SG01HP3<br>-AU-BM3 | SUN-40K-SG01HP3<br>-AU-BM4 | SUN-50K-SG01HP3<br>-AU-BM4 |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------|----------------------------|
| Battery Input Data                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |
| Battery Type                                       | Lithium-ion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |
| Battery Voltage Range (V)                          | 160-800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                            |                            |                            |
| Max. Charging Current (A)                          | 50+50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |                            |                            |
| Max. Discharging Current (A)                       | 50+50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |                            |                            |
| Charging Strategy for Li-ion Battery               | Self-adaption to BMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                            |                            |                            |
| Number of Battery Input                            | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                            |                            |                            |
| PV String Input Data                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |
| Max. PV access power(W)                            | 59800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 70000                      | 80000                      | 100000                     |
| Max. PV Input Power (W)                            | 44850                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 52500                      | 60000                      | 75000                      |
| Max. PV Input Voltage (V)                          | 1000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                            |                            |                            |
| Start-up Voltage (V)                               | 180                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |                            |                            |
| MPPT Voltage Range (V)                             | 150-850                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                            |                            |                            |
| Rated PV Input Voltage (V)                         | 600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |                            |                            |
| Max. Operating PV Input Current (A)                | 36+36+36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                            | 36+36+36+36                |                            |
| Max. Input Short-Circuit Current (A)               | 55+55+55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                            | 55+55+55+55                |                            |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 3/2+2+2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                            | 4/2+2+2+2                  |                            |
| AC Input/Output Data                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |
| Rated AC Input/Output Active Power (W)             | 29900                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 35000                      | 40000                      | 50000                      |
| Max. AC Input/Output Apparent Power (VA)           | 29900                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 35000                      | 40000                      | 50000                      |
| Rated AC Input/Output Current (A)                  | 43.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 50.8                       | 58                         | 72.5                       |
| Max. AC Input/Output Current (A)                   | 43.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 50.8                       | 58                         | 72.5                       |
| Max. Continuous AC Passthrough (grid to load) (A)  | 200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |                            |                            |
| Peak Power (off-grid) (W)                          | 1.5 times of rated power, 10s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                            |                            |
| Power Factor Adjustment Range                      | 0.8 leading to 0.8 lagging                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                            |                            |                            |
| Rated Input/Output Voltage/Range (V)               | 230/400V 0.85Un-1.1Un                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |                            |                            |
| Rated Input/Output Grid Frequency/Range(Hz)        | 50Hz/45Hz-55Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                            |                            |                            |
| Grid Connection Form                               | 3L+N+PE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                            |                            |                            |
| Total Current Harmonic Distortion THDi             | <3% (of nominal power)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |                            |                            |
| DC Injection Current                               | <0.5% In                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                            |                            |                            |
| Efficiency                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |
| Max. Efficiency                                    | 97.60%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |                            |                            |
| Euro Efficiency                                    | 97.0%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |                            |                            |
| MPPT Efficiency                                    | >99%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                            |                            |                            |
| Equipment Protection                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |
| Integrated                                         | DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Overvoltage Load Drop Protection, Ground Fault Current Monitoring, Arc Fault Circuit Interrupter (optional), Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Input Switch, DC Terminal Insulation Impedance Monitoring, Residual Current (RCD) Detection, Surge protection level |                            |                            |                            |
| Surge Protection Level                             | TYPE II(DC), TYPE II(AC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                            |                            |                            |
| Interface                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |
| Communication Interface                            | RS485/CAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                            |                            |                            |
| Monitor Mode                                       | GPRS/WIFI/Bluetooth/4G/LAN(optional)                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                            |                            |                            |
| General Data                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |
| Operating Temperature Range ( )                    | -40 to +60°C, >45°C Derating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                            |                            |                            |
| Permissible Ambient Humidity                       | 0-100%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |                            |                            |
| Permissible Altitude                               | 2000m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |                            |                            |
| Noise (dB)                                         | ≤65                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |                            |                            |
| Ingress Protection(IP) Rating                      | IP 65                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |                            |                            |
| Inverter Topology                                  | Transformerless                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |
| Over Voltage Category                              | OVC II(DC), OVC III(AC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                            |                            |                            |
| Cabinet Size (WxHxD mm)                            | 527×894×294 (Excluding Connectors and Brackets)                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |
| Weight (kg)                                        | 80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                            |                            |                            |
| Type of Cooling                                    | Intelligent Air Cooling                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                            |                            |                            |
| Warranty                                           | 10 Years                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                            |                            |                            |
| Grid Regulation                                    | AS/NZS 4777.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                            |                            |
| Safety / EMC Standard                              | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |                            |                            |

Spring Series

Residential ESS Solution

Rack-Mounted Battery(LV)



Support 3.6/5/6/8kW single-phase or three-phase inverters, meeting the application requirements of 1-4 hours



Eco-Friendly

- Use environmental protection materials, the whole module non-toxic, pollution-free



Convenient

- Battery module auto networking, easy maintenance
- Support remote monitoring and upgrade
- Support USB drive upgrade the firmware



Reliable

- Support high discharge power
- IP20, natural cooling
- Wide temperature range : -20°C to 55°C



Safer

- Cobalt Free Lithium Iron Phosphate LFP Battery : safety and long lifespan, high efficiency and high power
- Intelligent BMS, providing complete protection

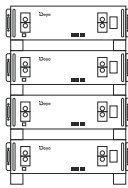


Flexible

- Modular design, easy to expand, Max. 64 units in parallel, Max. capacity of 327kWh
- Suitable for residential and commercial applications to increase the self-consumption ratio

SE-G5.1 Pro-B

Technical Data



Main Parameters

|                                      |                      |                                                                           |
|--------------------------------------|----------------------|---------------------------------------------------------------------------|
| Battery Chemistry                    |                      | LiFePO <sub>4</sub>                                                       |
| Built-in Circuit Breaker             |                      | 125A 2P, 60Vdc                                                            |
| Capacity ( Ah )                      |                      | 100                                                                       |
| Scalability                          |                      | Max. 64 pcs pack ( 327kWh ) in parallel ( Max. 32 pcs no external setup ) |
| Nominal Voltage ( V )                |                      | 51.2                                                                      |
| Operating Voltage ( V )              |                      | 43.2 ~ 57.6                                                               |
| Energy ( kWh )                       |                      | 5.12                                                                      |
| Usable Energy ( kWh ) <sup>[1]</sup> |                      | 4.6                                                                       |
| Charge / Discharge                   | Recommend            | 50                                                                        |
| Current ( A ) <sup>[2]</sup>         | Max.                 | 100                                                                       |
|                                      | Peak ( 2mins, 25°C ) | 150                                                                       |

Other Parameters

|                              |  |                                                                                                 |
|------------------------------|--|-------------------------------------------------------------------------------------------------|
| Recommend Depth of Discharge |  | 90%                                                                                             |
| Dimension ( W × H × D, mm )  |  | 440 × 133 × 540                                                                                 |
| Weight Approximate ( kg )    |  | 45                                                                                              |
| Master LED Indicator         |  | 5LED ( SOC : 20% ~ SOC100% ) , 3LED ( working, alarming, protecting )                           |
| IP Rating of Enclosure       |  | IP20                                                                                            |
| Operating Temperature        |  | Charge : 0~55°C ( Optional heating : -20°C ~ 55°C ), Discharge : -20°C~55°C                     |
| Storage Temperature          |  | 0°C ~ 35°C                                                                                      |
| Humidity                     |  | 5% ~ 95%                                                                                        |
| Altitude                     |  | ≤2000m                                                                                          |
| Cycle Life                   |  | ≥6000 ( 25°C ± 2°C, 0.5C / 0.5C, 90%DOD, 70%EOL )                                               |
| Installation                 |  | Wall-Mounted, Floor-Mounted,<br>Rack-Mounted ( 19-inch standard cabinet, cabinet depth ≥600mm ) |
| Communication Port           |  | CAN2.0, RS485                                                                                   |
| Warranty Period              |  | 10 years                                                                                        |
| Energy Throughput            |  | 16MWh@70%EOL                                                                                    |
| Certification                |  | UN38.3, IEC62619, CE, CB, UK, VDE 2510-50, CEI 0-21, FCC, UL1973, UL9540, UL9540A               |

[1] DC Usable Energy, test conditions: 90% DOD, 0.5C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.  
[2] The current is affected by temperature and SOC.

\*Wall-Mounted, Rack-Mounted, Floor-Mounted



Spring Series

Residential ESS Solution

Wall-Mounted Battery(LV)

Support 3.6/5/6/8kW single-phase or three-phase inverters, meeting the application requirements of 1-4 hours



Smarter

- Auto networking (No DIP switch code)
- Support remote monitoring and upgrade
- Support USB drive upgrade the firmware



Safer

- LFP Battery : safety, long lifespan and high-energy density
- Built-in intelligent BMS, providing complete protection
- Support natural cooling
- Use high-quality environmental protection materials



Exceptional Performance

- Support Max. 0.8c continuous charging and discharging
- Peak discharge current of 150A for up to 2mins



More Flexible

- Max. 32 units in parallel
- Max. capacity of the system can reach 196kWh
- Suitable for residential and commercial use

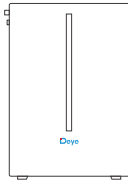


Enhanced Reliability

- 10 years warranty
- Wide temperature range: -20℃~55℃
- IP65-rated for indoor and outdoor use

RW-M6.1-B

Technical Data



Main Parameter

|                                                    |                      |                                |
|----------------------------------------------------|----------------------|--------------------------------|
| Battery Type                                       |                      | LiFePO <sub>4</sub>            |
| Capacity( Ah )                                     |                      | 120                            |
| Scalability                                        |                      | Max.32 pcs in Parallel(196kWh) |
| Nominal Voltage ( V )                              |                      | 51.2                           |
| Operating Voltage ( V )                            |                      | 43.2~57.6                      |
| Rated Energy( kWh )                                |                      | 6.14                           |
| Usable Energy ( kWh )                              |                      | 5.53                           |
| Rated DC Power ( kW )                              |                      | 6.14                           |
| Charge / Discharge<br>Current ( A ) <sup>[2]</sup> | Recommend            | 60                             |
|                                                    | Max                  | 100                            |
|                                                    | Peak ( 2mins, 25°C ) | 150                            |

Other Parameter

|                              |                                                                |
|------------------------------|----------------------------------------------------------------|
| Recommend Depth of Discharge | 90%                                                            |
| Dimension (WxHxD,mm)         | 510 x740 x145(Without Base, depth of 161mm with Hanging Board) |
| Weight Approximate (kg)      | 60                                                             |
| Master LED Indicator         | 5LED(SOC:20%~SOC100%),3LED (working, alarming, protecting)     |
| IP Rating of Enclosure       | IP65                                                           |
| Operating Temperature (℃)    | Charge:0~55℃/Discharge:-20℃~55℃                                |
| Storage Temperature (℃)      | 0℃~35℃                                                         |
| Humidity                     | 5%~95%                                                         |
| Altitude                     | ≤2000m                                                         |
| Cycle Life                   | ≥6000(25℃+2℃,0.5C/0.5C,70%EOL)                                 |
| Installation Location        | Wall-Mounted, Floor-Mounted                                    |
| Communication Port           | CAN2.0, RS485                                                  |
| Warranty Period              | 10 years                                                       |
| Energy Throughput            | 20MWh@70%EOL                                                   |
| Certification                | UN38.3, IEC62619, CE, CEI 0-21, VDE 2510-50                    |

[1] DC Usable Energy, test conditions: 90% DOD, 0.5C charge & discharge at 25℃. System usable energy may vary due to system configuration parameters.  
[2] The current is affected by temperature and SOC.  
[3] Conditions apply, refer to Deye Warranty Letter.  
[4] Made in China.

\*Wall-Mounted, Floor-Mounted

Spring Series  
Residential ESS Solution

Wall-Mounted Battery(LV)



Support 8-20kW single-phase or three-phase inverters, meeting the application requirements of 1-4 hours



Exceptional Performance

- RW-F10.2/RW-F10.2-B supports up to 1C/1.2C charging and discharging
- Peak discharge current of 300A for up to 2mins



Enhanced Reliability

- ≥6000 Cycles, 90%DOD, 70%EOL
- 10 years warranty for long-term peace of mind
- Wide temperature range: -20℃~55℃
- IP65-rated for indoor and outdoor use



Smarter

- Battery module auto networking (No DIP switch code)
- Support Deye remote monitoring and upgrade
- Supports Deye inverters to form a stack all-in-one system



More Flexible

- Modular design, easy to expand
- Support Max. 32 units in parallel
- RW-F10.2 has a maximum capacity of 326kWh
- RW-F10.2-B has a maximum capacity of 327kWh
- Suitable for residential and commercial use



Safer

- LFP Battery: safety, long lifespan and high-energy density
- Built-in intelligent BMS, providing complete protection
- Support natural cooling
- Use high-quality environmental protection materials

RW-F10.2  
Technical Data



Main Parameters

|                              |                                               |                             |
|------------------------------|-----------------------------------------------|-----------------------------|
| Model                        | RW-F10.2 (EU, AU)                             |                             |
| Battery Type                 | LiFePO <sub>4</sub>                           |                             |
| Built-In Circuit Breaker     | 125A 4P 60Vdc                                 |                             |
| Capacity ( Ah )              | 200                                           |                             |
| Nominal Voltage ( V )        | 51.2                                          |                             |
| Operating Voltage ( V )      | 43.2~57.6                                     |                             |
| Scalability                  | Max. 32 pcs pack in parallel<br>(Max. 326kwh) |                             |
| Rated Energy ( kWh )         | 10.2                                          |                             |
| Usable Energy ( kWh )        | 9.2(90%DOD)                                   |                             |
| Rated DC Power ( kW )        | 6                                             |                             |
| Max DC Power ( kW )          | 12                                            |                             |
| Charge / Discharge           | Recommend                                     | Charge:100/Discharge: 100   |
| Current ( A ) <sup>[2]</sup> | Max.                                          | Charge:198/Discharge: 240   |
|                              | Peak                                          | Discharge: 300(2mins,25 C ) |

Other Parameters

|                                           |                                                          |
|-------------------------------------------|----------------------------------------------------------|
| Recommend Depth of Discharge              | <b>90%</b>                                               |
| Dimension (W × H × D, mm)                 | 600 × 760 × 200<br>(Without hanging board)               |
| Weight Approximate ( kg )                 | 104                                                      |
| Master LED indicator                      | SOC state(20%~100%)<br>work state( alarming, protecting) |
| IP Rating of Enclosure                    | IP65                                                     |
| Operating Temperature ( °C )              | Charge:1~55℃<br>Discharge:-20℃~55℃                       |
| Storage Temperature ( °C )                | <b>32°F ~ 95°F ( 0 ~ 35℃ )</b>                           |
| External Ambient Temperature Range ( °C ) | /                                                        |
| Humidity                                  | <b>5%~95%</b>                                            |
| Altitude                                  | ≤ 3000m                                                  |
| Cycle Life                                | <b>≥6000(25℃+2℃,0.5C/0.5C,90%DOD,70%EOL)</b>             |
| Installation Location                     | <b>Wall-Mounted, Floor-Mounted</b>                       |
| Communication Port                        | <b>CAN2.0., RS485</b>                                    |
| Warranty Period                           | <b>10 years</b>                                          |
| Energy Throughput                         | <b>32MWh(25℃,0.5C/0.5C,70%EOL)</b>                       |
| Certification                             | UN38.3, IEC 62619, CE,<br>CEI 0-21, VDE 2510-50, CEC     |

\*Wall-Mounted, Floor-Mounted

Spring Series  
Residential ESS Solution

Stacked Battery(LV)



Support 3/5/6/8/12kW single-phase or three-phase inverters, meeting the application requirements of 1-4 hours



Smarter

- Battery module auto networking (No DIP switch code)
- Support remote monitoring and upgrade the firmware



Exceptional Performance

- Support Max. 1C continuous charging and discharging
- Peak discharge current of 360A for up to 10s (6 units)



Enhanced Reliability

- ≥6000 Cycles, 90%DOD, 70%EOL
- 10 years warranty for long-term peace of mind
- Wide temperature range: -20°C ~ 55°C
- IP65-rated for indoor and outdoor use



Safer

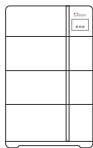
- LFP Battery: safety, long lifespan and high-energy density
- Built-in intelligent BMS, providing complete protection
- Support high discharge power and natural cooling
- Use high-quality environmental protection materials



More Flexible

- Modular design, easy to expand
- Up to 6 clusters (36 packs) can be supported in parallel
- The max power of the system can reach 184kWh
- Suitable for residential and commercial use

AI-W5.1-B  
Technical Data



Main Parameters

|                                      |                      |                     |       |       |       |      |       |
|--------------------------------------|----------------------|---------------------|-------|-------|-------|------|-------|
| Battery Type                         |                      | LiFePO <sub>4</sub> |       |       |       |      |       |
| Built-in Circuit Breaker             |                      | 125A 2P, 60Vdc      |       |       |       |      |       |
| Battery Module Energy ( kWh )        |                      | 5.12                |       |       |       |      |       |
| Battery Module Nominal Voltage ( V ) |                      | 51.2                |       |       |       |      |       |
| Battery Module Capacity ( Ah )       |                      | 100                 |       |       |       |      |       |
| scalability                          |                      | 1                   | 2     | 3     | 4     | 5    | 6     |
| System Nominal Voltage ( V )         |                      | 51.2                |       |       |       |      |       |
| System operating Voltage ( V )       |                      | 44.8~57.6           |       |       |       |      |       |
| System Energy ( kWh )                |                      | 5.12                | 10.24 | 15.36 | 20.48 | 25.6 | 30.72 |
| System Usable Energy ( kWh )         |                      | 4.6                 | 9.2   | 13.8  | 18.4  | 23   | 27.6  |
| Charge / Discharge<br>Current ( A )  | Recommend            | 50                  | 100   | 150   | 200   | 250  | 250   |
|                                      | Max.                 | 100                 | 180   | 250   | 250   | 250  | 250   |
|                                      | Peak ( 2mins, 25°C ) | 150                 | 270   | 360   | 360   | 360  | 360   |

Other Parameters

|                                   |                                  |                                                                                                                                  |                    |                     |                     |                     |                     |
|-----------------------------------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------|---------------------|---------------------|---------------------|
| Working Temperature ( °C )        |                                  | Charge:-20°C~55°C/Discharge: -20°C~55°C                                                                                          |                    |                     |                     |                     |                     |
| Storage Temperature ( °C )        |                                  | 0°C~35°C                                                                                                                         |                    |                     |                     |                     |                     |
| Communication Port                |                                  | CAN2.0,RS485                                                                                                                     |                    |                     |                     |                     |                     |
| Humidity                          |                                  | 5%~95%                                                                                                                           |                    |                     |                     |                     |                     |
| Altitude                          |                                  | ≤2000m                                                                                                                           |                    |                     |                     |                     |                     |
| IP Rating of Enclosure            |                                  | IP65 (after stacking)                                                                                                            |                    |                     |                     |                     |                     |
| System Dimension ( W x H x D.mm ) |                                  | 720 x255 x300(without terminal parts)                                                                                            |                    |                     |                     |                     |                     |
| System Weight Approximate ( kg )  |                                  | 55                                                                                                                               |                    |                     |                     |                     |                     |
| Module Dimension ( W x H x D.mm ) |                                  | 720 × 255<br>× 569                                                                                                               | 720 × 255<br>× 850 | 720 × 255<br>× 1131 | 720 × 255<br>× 1412 | 720 × 255<br>× 1693 | 720 × 255<br>× 1974 |
|                                   | Module Weight Approximate ( kg ) | 74.5                                                                                                                             | 127.5              | 180.5               | 233.5               | 286.5               | 339.5               |
| Master LED Indicator              |                                  | Battery module: 3LED (working, alarming, protecting),<br>PDU module: 5LED (SOC: 20%~100%) & 3LED (working, alarming, protecting) |                    |                     |                     |                     |                     |
| Installation Location             |                                  | Wall-Mounted, Floor-Mounted                                                                                                      |                    |                     |                     |                     |                     |
| Recommend Depth of Discharge      |                                  | 90%                                                                                                                              |                    |                     |                     |                     |                     |
| Cycle Life                        |                                  | ≥6000 (25°C ±2°C, 0.5C / 0.5C, 90%DOD, 70%EOL)                                                                                   |                    |                     |                     |                     |                     |
| Warranty Period                   |                                  | 10 years                                                                                                                         |                    |                     |                     |                     |                     |
| Energy Throughput                 |                                  | 16MWh (Battery Module @70%EOL)                                                                                                   |                    |                     |                     |                     |                     |
| Certification                     |                                  | UN38.3, IEC 62619, CE, UK, VDE 2510-50, CEI 0-21, CE-LVD, CEC, FCC, UL1973, UL9540, UL9540A                                      |                    |                     |                     |                     |                     |

\*Wall-Mounted, Floor-Mounted

Summer Series

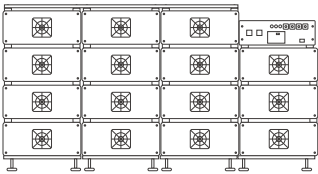
Indoor C&I ESS Solution

Rack-Mounted Battery (HV)



BOS-B

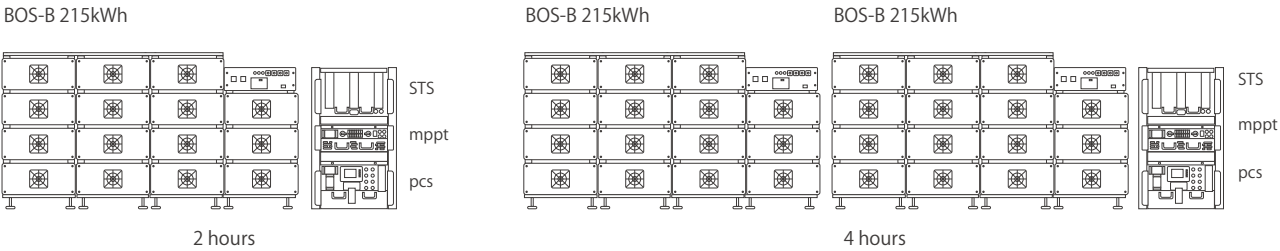
Technical Data



| Main Parameters                           |           |        |  |
|-------------------------------------------|-----------|--------|--|
| Battery Module Energy ( kWh )             |           | 14.3   |  |
| Battery Module Nominal Voltage ( V )      |           | 51.2   |  |
| Battery Module Capacity ( Ah )            |           | 280    |  |
| Module Weight Approximate ( kg )          |           | 122    |  |
| Battery Module Qty In Series ( Optional ) |           | 15     |  |
| Scalability                               |           | 5 ~ 15 |  |
| System Nominal Voltage ( V )              |           | 768    |  |
| System Energy ( kWh )                     |           | 214.5  |  |
| System Usable Energy ( kWh )              |           | 193.05 |  |
| Charge / Discharge                        | Recommend | 140    |  |
| Current ( A )                             | Max.      | 168    |  |

| Other Parameters                   |  |                                         |                            |
|------------------------------------|--|-----------------------------------------|----------------------------|
| Operating Temperature ( °C )       |  | discharge : -20 ~ 55                    | charge : 0 ~ 55            |
| Storage Temperature ( °C )         |  | 0 ~ 35                                  |                            |
| Thermal Management                 |  | Smart fan cooling                       |                            |
| LCD Display                        |  | SOC / Fault Code                        |                            |
| Status Indicator                   |  | Yellow : Battery High Voltage Power On  | Red : Battery System Alarm |
| Communication Port                 |  | TCP / RS485 / CAN                       |                            |
| Communication With BMS             |  | CAN                                     |                            |
| Humidity                           |  | 5% ~ 85%                                |                            |
| Altitude                           |  | ≤3000m                                  |                            |
| IP Rating of Enclosure             |  | IP20                                    |                            |
| Noise ( dB )                       |  | TBD                                     |                            |
| System Dimension ( W × H × D, mm ) |  | 2150 × 1136 × 800                       |                            |
| System Weight Approximate ( kg )   |  | 1850                                    |                            |
| Installation Location              |  | Rack Mounted                            |                            |
| Recommend Depth of Discharge       |  | 90%                                     |                            |
| Cycle Life                         |  | 25±2° C, 0.5C / 0.5C, EOL70%≥6000       |                            |
| Warranty Period                    |  | 10 years                                |                            |
| Certification                      |  | CE / IEC62619 / IEC62040 / UN38.3 / CEC |                            |

| Backup Power Duration Plan | 2 hours      | 4 hours          |
|----------------------------|--------------|------------------|
| Hybrid inverter power      | 100kW        | 100kW            |
| Battery model              | BOS-B 215kWh | BOS-B 215kWh × 2 |



Intelligent Control

- Peak-valley mgmt, anti-backflow, overload protection
- Load tracking, demand control, backup power, phase separation



Scalable

- Support up to 20 units in parallel, maximum 2MW/4.3MWh



Multi-Fusion

- Integrated EMS, PCS, and BMS
- Support expansion of MPPT module
- Support off-grid backup



Reliable

- Operating temp : -20° C to 55° C
- Operate up to 3000m altitude
- 1.1x overload capacity
- Balancing solutions extend battery life
- Triple auxiliary power design for stable supply



Easy Maintenance

- 5U Standard Chassis
- User Interface & Bluetooth App
- USB & Cloud Upgrades
- TCP Protocol for EMS
- Fault Signal Input Support



Safer

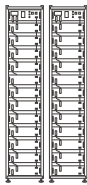
- LFP batteries
- Support aerosol fire extinguishing



# Summer Series Small-Scale C&I ESS Solution

Rack-Mounted Battery (HV)

## BOS-G Technical Data



### Main Parameters

|                                           |                                                                   |             |         |             |             |                  |             |         |             |           |
|-------------------------------------------|-------------------------------------------------------------------|-------------|---------|-------------|-------------|------------------|-------------|---------|-------------|-----------|
| Cell Chemistry                            | LiFePO <sub>4</sub>                                               |             |         |             |             |                  |             |         |             |           |
| Module Energy ( kWh )                     | 5.12                                                              |             |         |             |             |                  |             |         |             |           |
| Module Nominal Voltage ( V )              | 51.2                                                              |             |         |             |             |                  |             |         |             |           |
| Module Capacity ( Ah )                    | 100                                                               |             |         |             |             |                  |             |         |             |           |
| Battery Module Number                     | BOS-G15                                                           | BOS-G20     | BOS-G25 | BOS-G30     | BOS-G35     | BOS-G40          | BOS-G45     | BOS-G50 | BOS-G55     | BOS-G60   |
| Battery Module Qty In Series ( Optional ) | 3                                                                 | 4           | 5       | 6           | 7           | 8                | 9           | 10      | 11          | 12        |
| System Nominal Voltage ( V )              | 153.6                                                             | 204.8       | 256     | 307.2       | 358.4       | 409.6            | 460.8       | 512     | 563.2       | 614.4     |
| System Operating Voltage ( V )            | 124.8~175.2                                                       | 166.4~233.6 | 208~292 | 249.6~350.4 | 291.2~408.8 | 332.8~467.2      | 374.4~525.6 | 416~584 | 457.6~642.4 | 499.2~700 |
| System Energy ( kWh )                     | 15.36                                                             | 20.48       | 25.6    | 30.72       | 35.84       | 40.96            | 46.08       | 51.2    | 56.32       | 61.44     |
| System Usable Energy ( kWh )              | 13.82                                                             | 18.43       | 23.04   | 27.64       | 32.25       | 36.86            | 41.47       | 46.08   | 50.68       | 55.29     |
| Rtd DC Power                              | 15.36                                                             | 20.48       | 25.6    | 30.72       | 35.84       | 40.96            | 46.08       | 51.2    | 56.32       | 61.44     |
| Charge / Discharge <sup>1</sup>           | Recommend                                                         |             |         |             |             | 50               |             |         |             |           |
| Current ( A )                             | Max.                                                              |             |         |             |             | 100              |             |         |             |           |
|                                           | Peak Discharge ( 2 mins, 25°C )                                   |             |         |             |             | 125              |             |         |             |           |
| Working Temperature ( ° C )               | Charge : 0 ~ 55 / Discharge : -20~55                              |             |         |             |             |                  |             |         |             |           |
| Status Indicator                          | Yellow : Battery High Voltage Power On Red : Battery System Alarm |             |         |             |             |                  |             |         |             |           |
| Communication Port                        | CAN2.0 / RS485                                                    |             |         |             |             |                  |             |         |             |           |
| Humidity                                  | 5% ~ 85%RH                                                        |             |         |             |             |                  |             |         |             |           |
| Altitude                                  | ≤2000m                                                            |             |         |             |             |                  |             |         |             |           |
| IP Rating of Enclosure                    | IP20                                                              |             |         |             |             |                  |             |         |             |           |
| Dimension ( W × D × H, mm )               | 530 × 602 × 1629                                                  |             |         |             |             | 530 × 602 × 2187 |             |         |             |           |
| Weight Approximate ( kg )                 | 388                                                               |             |         |             |             | 562              |             |         |             |           |
| Installation Location                     | Rack Mounting                                                     |             |         |             |             |                  |             |         |             |           |
| Storage Temperature ( ° C )               | 0 ~ 35                                                            |             |         |             |             |                  |             |         |             |           |
| Recommend Depth of Discharge              | 90%                                                               |             |         |             |             |                  |             |         |             |           |
| Cycle Life                                | 25±2° C, 0.5C/0.5C, EOL70%≥6000                                   |             |         |             |             |                  |             |         |             |           |
| Warranty Period                           | 10 years                                                          |             |         |             |             |                  |             |         |             |           |
| Certification                             | UN38.3, IEC, CEC                                                  |             |         |             |             |                  |             |         |             |           |

1. The current is affected by temperature and SOC.



### Intelligent Control

- Over-discharge/charge/current protection
- Over-high or low temperature protection



### Flexible Expansion

- Support 3 ~ 12 packs in series



### High-Efficiency Use

- Low self-discharge for 6 months
- No memory effect



### 19-Inch Embedded Design

- Comfortable for installation



### Upgrade Options

- Support USB and Wi-Fi (optional) upgrades
- Support remote upgrades



### Battery Protection

- Auto charge and discharge
- Cell voltage balancing

Summer Series  
Small-Scale C&I ESS Solution

Rack-Mounted Battery (HV)



Safer

- LFP Battery: safety, long lifespan and high-energy density
- Built-in intelligent BMS, providing complete protection
- Protection functions against over-discharge, over-charge, over-current, over-high or low temperature



Exceptional Performance

- Automatically manage charge/discharge and balance current/voltage
- Less self-discharge, up to 6 months without charging on shelf
- No memory effect, performs well with shallow charges and discharges
- Peak discharge current of 125A 2mins



More Flexible

- Multiple battery modules can be in parallel
- Support 5~17 packs in series



Enhanced Reliability

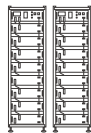
- > 6000 Cycles, 70%EOL
- 10 years warranty for long-term peace of mind
- Wide temperature range: -20℃~55℃
- IP20-rated for indoor environments



Smarter

- Support remotely monitoring and upgrade
- Support USB and Wi-Fi (optional) upgrade

BOS-G PRO  
Technical Data



Main Parameters

|                                           |                                |             |             |             |
|-------------------------------------------|--------------------------------|-------------|-------------|-------------|
| Cell Chemistry                            | LiFePO <sub>4</sub>            |             |             |             |
| Module Energy ( kWh )                     | 5.12                           |             |             |             |
| Module Nominal Voltage ( V )              | 51.2                           |             |             |             |
| Module Capacity ( Ah )                    | 100                            |             |             |             |
| Battery Module Number                     | BOS-G25 Pro                    | BOS-G40 Pro | BOS-G60 Pro | BOS-G85 Pro |
| Battery Module Qty In Series ( Optional ) | 5 (Min)                        | 8           | 12          | 17 (Max)    |
| System Nominal Voltage ( V )              | 256                            | 409.6       | 614.4       | 870.4       |
| System Operating Voltage ( V )            | 220~292                        | 352~467.2   | 528~700.8   | 748~992.8   |
| System Energy ( kWh )                     | 25.6                           | 40.96       | 61.44       | 87.04       |
| System Usable Energy ( kWh )              | 23.04                          | 36.86       | 55.3        | 78.33       |
| Rated DC Power                            | 25.6                           | 40.96       | 55.3        | 87.04       |
| Charge / Discharge                        | Recommend                      | 50          |             |             |
| Current ( A )                             | Max.                           | 100         |             |             |
|                                           | Peak Discharge ( 2 mins, 25℃ ) | 125         |             |             |

Other Parameters

|                                   |                                                                   |     |                  |                   |
|-----------------------------------|-------------------------------------------------------------------|-----|------------------|-------------------|
| Operating Temperature ( °C )      | Charge : 0 ~ 55 / Discharge : -20 ~ 55                            |     |                  |                   |
| Status Indicator                  | Yellow : Battery High Voltage Power On Red : Battery System Alarm |     |                  |                   |
| Communication Port                | CAN2.0 / RS485                                                    |     |                  |                   |
| Humidity                          | 5% ~ 85%RH                                                        |     |                  |                   |
| Altitude                          | ≤3000m                                                            |     |                  |                   |
| IP Rating of Enclosure            | IP20                                                              |     |                  |                   |
| System Dimension ( W x H x D,mm ) | 530 × 602 × 1629                                                  |     | 530 × 602 × 2219 | 1060 × 602 × 1629 |
| System Weight Approximate ( kg )  | 290                                                               | 428 | 622              | 883               |
| Installation Location             | Rack Mounting                                                     |     |                  |                   |
| Storage Temperature(℃)            | 0 ~ 35                                                            |     |                  |                   |
| Recommend Depth of Discharge      | 90%                                                               |     |                  |                   |
| Cycle Life                        | 25±2° C, 0.5C / 0.5C, EOL70%≥6000                                 |     |                  |                   |
| Warranty Period                   | 10 years                                                          |     |                  |                   |
| Certification                     | UN38.3, IEC, VDE, CEC                                             |     |                  |                   |

| Inverter               | 1h  | 2h     | 3h     | 4h     |
|------------------------|-----|--------|--------|--------|
| SUN-30K-SG01HP3-EU-BM3 | X6  | X12    | X9 X2  | X12 X2 |
| SUN-40K-SG01HP3-EU-BM4 | X8  | X8 X2  | X12 X2 | X11 X3 |
| SUN-50K-SG01HP3-EU-BM4 | X10 | X10 X2 | X10 X3 | X10 X4 |
| SUN-60K-SG02HP3-EU-EM4 | X12 | X12 X2 | X12 X3 | X16 X3 |
| SUN-80K-SG02HP3-EU-EM6 | X16 | X16 X2 | X16 X3 | X16 X4 |



Summer Series  
Small-Scale C&I ESS Solution

Small-Scale C&I Battery Cabinet

Safety Protection

- Lithium iron phosphate LFP batteries, battery packs and
- Systems all use aerosol fire suppression solutions

Total Protection

- Combustible gas, smoke and temperature detection
- System active exhaust and fire alarm

Integrated Technology

- EMS, hybrid inverter and BMS integration technology
- Power supply redundancy design
- Support for black start function, off-grid operation

Flexible Extension

- Support battery expansion a maximum capacity of
- 3600kWh( Off-grid )

GE-F60  
Technical Data



| Main Parameters                                  |                                                          |                            |
|--------------------------------------------------|----------------------------------------------------------|----------------------------|
| Cell Chemistry                                   | LiFePO <sub>4</sub>                                      |                            |
| Module Energy ( kWh )                            | 5.12                                                     |                            |
| Module Nominal Voltage ( V )                     | 51.2                                                     |                            |
| Module Capacity ( Ah )                           | 100                                                      |                            |
| Battery Module Qty In Series                     | 12                                                       |                            |
| System Nominal Voltage ( V )                     | 614.4                                                    |                            |
| System Operating Voltage ( V )                   | 480 ~ 700                                                |                            |
| System Energy ( kWh )                            | 61.44                                                    |                            |
| System Usable Energy ( kWh ) <sup>1</sup>        | 55.29                                                    |                            |
| Rated DC Power                                   | 61.44                                                    |                            |
| Charge / Discharge <sup>2</sup><br>Current ( A ) | Recommend                                                | 50                         |
|                                                  | Max.                                                     | 100                        |
|                                                  | Peak Discharge ( 2 mins, 25°C )                          | 125                        |
| Other Parameters                                 |                                                          |                            |
| Status Indicator                                 | Yellow : Battery High Voltage Power On                   | Red : Battery System Alarm |
| Communication Port                               | CAN2.0 / RS485                                           |                            |
| Humidity                                         | 5% ~ 85%RH                                               |                            |
| Altitude                                         | ≤2000m                                                   |                            |
| IP Rating of Enclosure                           | IP55                                                     |                            |
| Dimension ( W × D × H, mm )                      | 783 × 1059 × 2235                                        |                            |
| Weight Approximate ( kg )                        | 1070                                                     |                            |
| Installation Method                              | Floor-Mounted                                            |                            |
| Storage Temperature ( ° C )                      | 0 ~ 35                                                   |                            |
| Operating Temperature ( ° C )                    | -30 ~ 60 ( >45 derating )                                |                            |
| Recommend Depth of Discharge                     | 90%                                                      |                            |
| Cycle Life                                       | ≥6000 ( 25±2° C, 0.5C / 0.5C, EOL70% )                   |                            |
| Warranty Period                                  | 10 years                                                 |                            |
| Certification                                    | UN38.3, IEC, VDE, CEI, CEC, FCC, UL1973, UL9540A, UL9540 |                            |

| Typical Application Solutions  |                                       |                         |
|--------------------------------|---------------------------------------|-------------------------|
| 6 × F60+50kW Inverter          | Maximum 6 DC parallel-connected units | Up to : 50kW / 360kWh   |
| ( 6 × F60+50kW Inverter ) × 10 | Maximum 10 groups AC parallel         | Up to : 500kW / 3600kWh |
| ( F60+50kW Inverter ) × 10     | Maximum 10 groups AC parallel         | Up to : 500kW / 600kWh  |
| 10 × F120                      | 30kW/ 50kW Inverter selectable        | Up to : 500kW / 1200kWh |
| F120+4 × F60                   | 1+4 Combined DC Expansion             | Up to : 50kW / 360kWh   |
| ( F120+4 × F60 ) × 10          | Maximum 10 groups AC parallel         | Up to : 500kW / 3600kWh |

1. DC Usable Energy, test conditions : 90% DOD, 0.3C charge & discharge at 25° C. System usable energy may vary due to system configuration parameters.  
2. The current is affected by temperature and SOC.  
3. Made in China.



# Summer Series Small-Scale C&I ESS Solution

Small-Scale C&I ESS



## Protection

- Combustible gas, smoke and temperature detection
- System active exhaust and fire alarm
- Battery pack and system use aerosol fire suppression



## Multi-Fusion

- All-in-One design
- EMS, hybrid inverter and BMS integrated technology
- Support black start function and off-grid operation
- Power supply redundancy design



## Enhanced Reliability

- Maximum battery temperature ≤ 35°C at rated power
- IP55-rated for outdoor use
- Wide temperature range: -20°C ~ 55°C

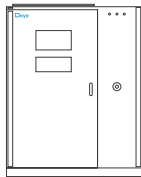


## Flexible

- F120 supports the integration of 30/40/50kW inverters
- Support expansion a maximum capacity of 3600kWh

# GE-F120-2H2/4/6

## Technical Data



### System Specification

| Model                                  | GE-F120-4H2                         | GE-F120-3H2 | GE-F120-2H2 |
|----------------------------------------|-------------------------------------|-------------|-------------|
| Main Parameters                        |                                     |             |             |
| Nominal Output Power / UPS Power ( W ) | 30000                               | 40000       | 50000       |
| AC Output Frequency and Voltage        | 50 / 60Hz ; 220 / 380, 230 / 400Vac |             |             |
| Grid Type                              | 3L / N / PE                         |             |             |
| Number of Parallel ( Off-grid )        | 10                                  |             |             |
| Energy Configuration ( kWh )           | 122.8                               |             |             |
| Dimension ( W × D × H, mm )            | 1780 × 1056 × 2235                  |             |             |
| Weight Approximate ( kg )              | 2090                                |             |             |
| AC Output Rated Current ( A )          | 45                                  | 60          | 75.8        |
| Battery Operating Voltage ( V )        | 500 ~ 700                           |             |             |
| Max. RTE                               | 89%                                 |             |             |
| Battery Chemistry                      | LiFePO <sub>4</sub>                 |             |             |
| IP Rating of Enclosure                 | IP55                                |             |             |
| Installation Method                    | Floor-Mounted                       |             |             |
| Storage Temperature ( ° C )            | 0 ~ 35                              |             |             |
| Operating Temperature ( ° C )          | -20 ~ 55 ( >43 derating )           |             |             |
| Warranty Period                        | 10 years                            |             |             |

### Inverter Technical Specification

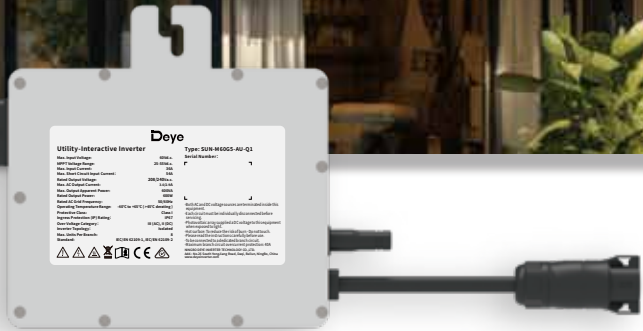
|                                     |                                                                                                                             |             |             |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-------------|-------------|
| Max. PV Input Power ( W )           | 39000                                                                                                                       | 52000       | 65000       |
| Max. PV Input Current ( A )         | 36+36+36                                                                                                                    | 36+36+36+36 | 36+36+36+36 |
| Rated PV Input Voltage ( Vdc )      | 600                                                                                                                         |             |             |
| Start Up DC Voltage ( Vdc )         | 180                                                                                                                         |             |             |
| MPPT Voltage Range ( Vdc )          | 150-850                                                                                                                     |             |             |
| Max. PV Short-circuit Current ( A ) | 55+55+55                                                                                                                    | 55+55+55+55 | 55+55+55+55 |
| Number of MPPT                      | 3                                                                                                                           | 4           | 4           |
| Peak Power ( off grid )             | 1.5 time of rated power, 10s                                                                                                |             |             |
| Power Factor                        | 0.8 leading to 0.8 lagging                                                                                                  |             |             |
| THD                                 | <3%                                                                                                                         |             |             |
| DC Injection current ( mA )         | <0.5%In                                                                                                                     |             |             |
| Display                             | LCD                                                                                                                         |             |             |
| Operating Temperature Range ( ° C ) | -40 ~ 60 ( >45 derating )                                                                                                   |             |             |
| Relative Humidity                   | 15% ~ 85% ( No Condensing )                                                                                                 |             |             |
| Dimension ( W × D × H, mm )         | 527 × 294 × 894                                                                                                             |             |             |
| Inverter Communication              | CAN, RS485, WIFI, ETH                                                                                                       |             |             |
| Grid Regulation                     | VDE 4105, IEC 61727 / 62116, VDE 0126, AS 4777.2, CEI 0-21, EN 50549-1, G98, G99, C10-11, UNE 217002, NBR 16149 / NBR 16150 |             |             |
| Max. Efficiency                     | 97.6%                                                                                                                       |             |             |
| MPPT Efficiency                     | 99.9%                                                                                                                       |             |             |

### Battery Technical Specification

|                                           |                                                                      |
|-------------------------------------------|----------------------------------------------------------------------|
| Battery Module Nominal Voltage ( V )      | 51.2                                                                 |
| Battery Module Energy ( kWh )             | 5.12                                                                 |
| BMS Communication                         | CAN                                                                  |
| Battery Module Dimension ( W × D × H mm ) | 440 × 570 × 133                                                      |
| Battery Module Weight ( kg )              | 44                                                                   |
| Cycle Life                                | ≥6000 ( @25°C±2°C, 0.5C / 0.5C, 70%EOL )                             |
| Battery Module Certification              | UN38.3, IEC 62619, IEC 61000, VED, CEI, FCC, UL1973, UL9540, UL9540A |

# Microinverter

SUN-M60/80/100G5-AU-Q1



- 30 Max. DC input current of 30A, adapt to 700W PV module
- 1 MPP tracker, module level monitoring
- WIFI communication
- Rapid shutdown function

## Technical Data

| Model                                                  | SUN-M60G5-AU-Q1                                         |                   | SUN-M80G5-AU-Q1   | SUN-M100G5-AU-Q1 |
|--------------------------------------------------------|---------------------------------------------------------|-------------------|-------------------|------------------|
| PV String Input Data                                   |                                                         |                   |                   |                  |
| Max. PV Input Power (W)                                | 210-420(2 Pieces)                                       | 210-560(2 Pieces) | 210-700(2 Pieces) |                  |
| Max. PV Input Voltage (V)                              | 60                                                      |                   |                   |                  |
| Start-up Voltage (V)                                   | 15                                                      |                   |                   |                  |
| MPPT Voltage Range (V)                                 | 25-55                                                   |                   |                   |                  |
| Rated PV Input Voltage (V)                             | 42.5                                                    |                   |                   |                  |
| Max. Operating PV Input Current (A)                    | 30                                                      |                   |                   |                  |
| Max. Input Short Circuit Current (A)                   | 45                                                      |                   |                   |                  |
| No. of MPP Trackers/<br>No. of Strings per MPP Tracker | 1/2                                                     |                   |                   |                  |
| AC Output Side                                         |                                                         |                   |                   |                  |
| Rated AC Output Active Power (W)                       | 600                                                     | 800               | 1000              |                  |
| Max. AC Output Apparent Power (VA)                     | 600                                                     | 800               | 1000              |                  |
| Rated AC Output Current (A)                            | 2.7                                                     | 3.5               | 4.4               |                  |
| Max. AC Output Current (A)                             | 2.7                                                     | 3.5               | 4.4               |                  |
| Rated Output Voltage/Range (V)                         | 230V/240V 0.85Un-1.1Un                                  |                   |                   |                  |
| Grid Connection Form                                   | L+N+PE                                                  |                   |                   |                  |
| Rated Output Grid Frequency/Range(Hz)                  | 50/45-55                                                |                   |                   |                  |
| Max. Unit per Branch                                   | 8                                                       | 6                 | 5                 |                  |
| Power Factor Adjustment Range                          | 0.8 leading-0.8 lagging                                 |                   |                   |                  |
| Total Current Harmonic Distortion THDi                 | <5%                                                     |                   |                   |                  |
| DC Injection Current                                   | <0.5%In                                                 |                   |                   |                  |
| Efficiency                                             |                                                         |                   |                   |                  |
| Max. Efficiency                                        | 96.5%                                                   |                   |                   |                  |
| Euro Efficiency                                        | 96.0%                                                   |                   |                   |                  |
| MPPT Efficiency                                        | >99%                                                    |                   |                   |                  |
| Equipment Protection                                   |                                                         |                   |                   |                  |
| DC Polarity Reverse Connection Protection              | Yes                                                     |                   |                   |                  |
| AC Output Overcurrent Protection                       | Yes                                                     |                   |                   |                  |
| AC Output Overvoltage Protection                       | Yes                                                     |                   |                   |                  |
| AC Output Short Circuit Protection                     | Yes                                                     |                   |                   |                  |
| Thermal Protection                                     | Yes                                                     |                   |                   |                  |
| DC Terminal Insulation Impedance Monitoring            | Yes                                                     |                   |                   |                  |
| Power Network Monitoring                               | Yes                                                     |                   |                   |                  |
| Island Protection Monitoring                           | Yes                                                     |                   |                   |                  |
| Earth Fault Detection                                  | Yes                                                     |                   |                   |                  |
| Overvoltage Load Drop Protection                       | Yes                                                     |                   |                   |                  |
| General Data                                           |                                                         |                   |                   |                  |
| Operating Temperature Range (°C)                       | -40 to +65°C, >45°C Derating                            |                   |                   |                  |
| Permissible Ambient Humidity                           | 0-100%                                                  |                   |                   |                  |
| Permissible Altitude (m)                               | 2000m                                                   |                   |                   |                  |
| Noise (dB)                                             | ≤25                                                     |                   |                   |                  |
| Ingress Protection(IP) Rating                          | IP 67                                                   |                   |                   |                  |
| Inverter Topology                                      | HF Transformer                                          |                   |                   |                  |
| Over Voltage Category                                  | OVC II(DC), OVC IV(AC)                                  |                   |                   |                  |
| Communication                                          | WiFi                                                    |                   |                   |                  |
| Cabinet Size (WxHxD mm)                                | 217.3×175.5×32.4 (Excluding Connectors and Brackets)    |                   |                   |                  |
| Weight (kg)                                            | 2.7                                                     |                   |                   |                  |
| Warranty                                               | Standard 10/15 years, extended warranty                 |                   |                   |                  |
| Type of Cooling                                        | Natural Cooling                                         |                   |                   |                  |
| Grid Regulation                                        | AS/NZS 4777.2                                           |                   |                   |                  |
| Safety EMC/Standard                                    | IEC 62920,IEC 61000-6-1/2/3/4, IEC 62109-1, IEC 62109-2 |                   |                   |                  |

# Microinverter

SUN-M130/160/180/200/220/225G5-AU-Q1



-  IP67 protection degree, 10 years warranty
-  WIFI communication
-  36 Max. DC input current of 36A, adapt to 790W PV module
-  2 MPP tracker, module level monitoring
-  Rapid shutdown function

## Technical Data

| Model                                                  | SUN-M130G5<br>-AU-Q1                                    | SUN-M160G5<br>-AU-Q1  | SUN-M180G5<br>-AU-Q1  | SUN-M200G5<br>-AU-Q1  | SUN-M220G5<br>-AU-Q1  | SUN-M225G5<br>-AU-Q1  |
|--------------------------------------------------------|---------------------------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| PV String Input Data                                   |                                                         |                       |                       |                       |                       |                       |
| Max. PV Input Power (W)                                | 210-460<br>(4 Pieces)                                   | 210-560<br>(4 Pieces) | 210-630<br>(4 Pieces) | 210-700<br>(4 Pieces) | 210-770<br>(4 Pieces) | 210-790<br>(4 Pieces) |
| Max. PV Input Voltage (V)                              | 60                                                      |                       |                       |                       |                       |                       |
| Start-up Voltage (V)                                   | 20                                                      |                       |                       |                       |                       |                       |
| MPPT Voltage Range (V)                                 | 25-55                                                   |                       |                       |                       |                       |                       |
| Rated PV Input Voltage (V)                             | 42.5                                                    |                       |                       |                       |                       |                       |
| Max. Operating PV Input Current (A)                    | 36+36                                                   |                       |                       |                       |                       |                       |
| Max. Input Short Circuit Current (A)                   | 54+54                                                   |                       |                       |                       |                       |                       |
| No. of MPP Trackers/<br>No. of Strings per MPP Tracker | 2/2+2                                                   |                       |                       |                       |                       |                       |
| AC Output Side                                         |                                                         |                       |                       |                       |                       |                       |
| Rated AC Output Active Power (W)                       | 1300                                                    | 1600                  | 1800                  | 2000                  | 2200                  | 2250                  |
| Max. AC Output Apparent Power (VA)                     | 1300                                                    | 1600                  | 1800                  | 2000                  | 2200                  | 2250                  |
| Rated AC Output Current (A)                            | 5.7                                                     | 7                     | 7.9                   | 8.7                   | 9.6                   | 9.8                   |
| Max. AC Output Current (A)                             | 5.7                                                     | 7                     | 7.9                   | 8.7                   | 9.6                   | 9.8                   |
| Rated Output Voltage/Range (V)                         | 230V/240V 0.85Un-1.1Un                                  |                       |                       |                       |                       |                       |
| Grid Connection Form                                   | L/N/PE                                                  |                       |                       |                       |                       |                       |
| Rated Output Grid Frequency/Range(Hz)                  | 50/45-55                                                |                       |                       |                       |                       |                       |
| Max. Unit per Branch                                   | 5                                                       | 4                     | 3                     | 3                     | 3                     | 3                     |
| Power Factor Adjustment Range                          | 0.8 leading-0.8 lagging                                 |                       |                       |                       |                       |                       |
| Total Current Harmonic Distortion THDi                 | <3%                                                     |                       |                       |                       |                       |                       |
| DC Injection Current                                   | <0.5%In                                                 |                       |                       |                       |                       |                       |
| Efficiency                                             |                                                         |                       |                       |                       |                       |                       |
| Max. Efficiency                                        | 96.5%                                                   |                       |                       |                       |                       |                       |
| Euro Efficiency                                        | 96.0%                                                   |                       |                       |                       |                       |                       |
| MPPT Efficiency                                        | >99%                                                    |                       |                       |                       |                       |                       |
| Equipment Protection                                   |                                                         |                       |                       |                       |                       |                       |
| DC Polarity Reverse Connection Protection              | Yes                                                     |                       |                       |                       |                       |                       |
| AC Output Overcurrent Protection                       | Yes                                                     |                       |                       |                       |                       |                       |
| AC Output Overvoltage Protection                       | Yes                                                     |                       |                       |                       |                       |                       |
| AC Output Short Circuit Protection                     | Yes                                                     |                       |                       |                       |                       |                       |
| Thermal Protection                                     | Yes                                                     |                       |                       |                       |                       |                       |
| DC Terminal Insulation Impedance Monitoring            | Yes                                                     |                       |                       |                       |                       |                       |
| Power Network Monitoring                               | Yes                                                     |                       |                       |                       |                       |                       |
| Island Protection Monitoring                           | Yes                                                     |                       |                       |                       |                       |                       |
| Earth Fault Detection                                  | Yes                                                     |                       |                       |                       |                       |                       |
| Overvoltage Load Drop Protection                       | Yes                                                     |                       |                       |                       |                       |                       |
| General Data                                           |                                                         |                       |                       |                       |                       |                       |
| Operating Temperature Range (°C)                       | -40 to +65°C, >45°C Derating                            |                       |                       |                       |                       |                       |
| Permissible Ambient Humidity                           | 0-100%                                                  |                       |                       |                       |                       |                       |
| Permissible Altitude (m)                               | 2000m                                                   |                       |                       |                       |                       |                       |
| Noise (dB)                                             | ≤25                                                     |                       |                       |                       |                       |                       |
| Ingress Protection(IP) Rating                          | IP 67                                                   |                       |                       |                       |                       |                       |
| Inverter Topology                                      | HF Transformer                                          |                       |                       |                       |                       |                       |
| Communication Interface                                | WiFi                                                    |                       |                       |                       |                       |                       |
| Over Voltage Category                                  | OVC II(DC), OVC III(AC)                                 |                       |                       |                       |                       |                       |
| Cabinet Size (WxHxD mm)                                | 367.2×228.7×36 (Excluding Connectors and Brackets)      |                       |                       |                       |                       |                       |
| Weight (kg)                                            | 5.7                                                     |                       |                       |                       |                       |                       |
| Warranty                                               | Standard 10/15 years, Extended warranty                 |                       |                       |                       |                       |                       |
| Type of Cooling                                        | Natural Cooling                                         |                       |                       |                       |                       |                       |
| Grid Regulation                                        | AS/NZS 4777.2                                           |                       |                       |                       |                       |                       |
| Safety EMC/Standard                                    | IEC 62920,IEC 61000-6-1/2/3/4, IEC 62109-1, IEC 62109-2 |                       |                       |                       |                       |                       |

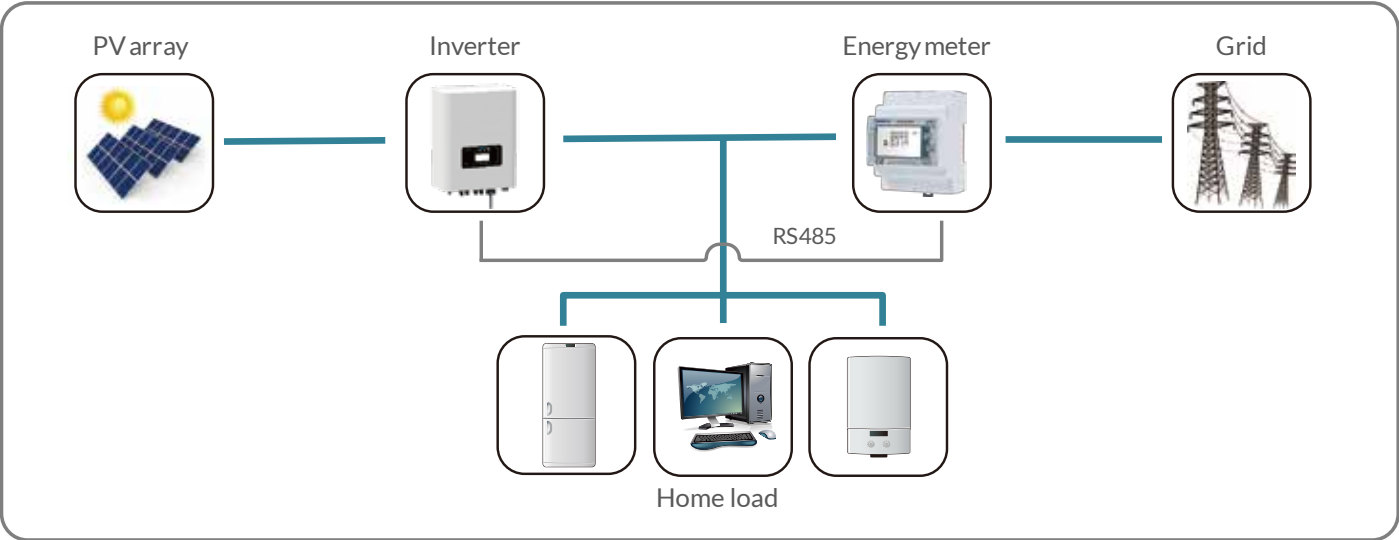
# Energy Meter



## Technical Data

| Model                             | SDM120CTM 40mA    |            | SDM630MCT 1A/5A | SDM630MCT 40mA |
|-----------------------------------|-------------------|------------|-----------------|----------------|
| Technical Spec                    |                   |            |                 |                |
| Nominal Volatage (Un)             | 120/230V          | 230/400V   | 230/400V        |                |
| Operation Voltage                 | 80%-120%Un        |            |                 |                |
| Primary current (A)               | 5-9999A (with CT) |            |                 |                |
| Secondary current (A)             | 40mA CT           | 1A/5A CT   | 40mA CT         |                |
| Operation frequency               | 50/60Hz           |            |                 |                |
| Power consumption                 | ≤2W/10VA          |            |                 |                |
| Accuracy Class                    |                   |            |                 |                |
| Active power                      | Class1            |            |                 |                |
| Reactive power                    | Class2            |            |                 |                |
| Performance criteria              |                   |            |                 |                |
| Dimenstions (L/H/W) in mm         | 118*64*18         | 94.5*65*72 | 94.5*65*72      |                |
| Mounting options                  | DIN Rail          |            |                 |                |
| Degree of protection              | IP51              |            |                 |                |
| Display                           | LCD               |            |                 |                |
| Max. number of devices to connect | 32                |            |                 |                |
| Operation temperature             | -25°C~+55°C       |            |                 |                |
| Humidity                          | ≤90%              |            |                 |                |
| Warranty                          | 1.5 years         |            |                 |                |

## Typical Application Diagram



# Stick Logger

## GPRS / WIFI / 4G / Ethernet

Monitor your system anywhere in the world.



- ◆ External light indicator, logging status at a glance;
- ◆ Plug & play, pick power within inverter, no external power needed, easy to install;
- ◆ Independent from inverter to protect parts inside inverter, eliminate potential problems;
- ◆ IP65 water-proof design, resistant to bad weather, enhance stability;
- ◆ External design, easier to replace faulty equipment;
- ◆ End-user can monitor yields at any time with SOLARMAN APP.

### Technical Data

| Product Model                  | LSG-3                                    | LSG-4                                    | LSW-3                       | LS4G-3                        | LSE-3                        |
|--------------------------------|------------------------------------------|------------------------------------------|-----------------------------|-------------------------------|------------------------------|
| Remote Communication Interface | GPRS                                     | GPRS                                     | WiFi                        | 4G                            | LAN                          |
| Working Frequency              | GSM850 / EGSM900 / DCS1800 / PCS 1900MHz | GSM850 / EGSM900 / DCS1800 / PCS 1900MHz | 2.142GHz-2.484GHz           | 704MHZ-960MHZ 1710MHZ-2690MHZ | Adaptive Network; 10M / 100M |
| Satellite Positioning          | /                                        | GPS / Beidou < 15m                       | /                           | /                             | /                            |
| Antenna                        | External GPRS Stick Antenna              | External GPRS Stick Antenna              | External WiFi Stick Antenna | External 4G Stick Antenna     | /                            |
| Data Interface                 | RS485 / RS232 / TTL                      |                                          |                             |                               |                              |
| Working Voltage                | DC4.7V~DC15V                             |                                          |                             |                               |                              |
| Working Power                  | 3W                                       | 3W                                       | 1.5W                        | 5W                            | 1W                           |
| SIM Card                       | Chip Card / MicroSIM                     | Chip Card / MicroSIM                     | /                           | MicroSIM                      | /                            |
| Memory                         | 2M Flash (2M-16M Optional)               |                                          |                             |                               |                              |
| Working Temperature            | -40°C-85°C                               |                                          |                             |                               |                              |
| Working Humidity               | < 90% (No Condensing)                    |                                          |                             |                               |                              |
| No.of Connections              | One                                      |                                          |                             |                               |                              |
| Serial Communication Rate      | bps (1200-115200bps Configurable)        |                                          |                             |                               |                              |
| Data Acquisition Interval      | Default 5min (1-15min Configurable)      |                                          |                             |                               |                              |
| User Configuration             | AT+InstructionSet                        |                                          |                             |                               |                              |
|                                | Remote Server                            |                                          |                             |                               |                              |
|                                | Bluetooth                                |                                          | APP / Web                   | Local Serial Port             | Web                          |
| Firmware Upgrade               | Remote Upgrade                           |                                          |                             |                               |                              |
| Others                         | Real-time Control, Data resuming         |                                          |                             |                               |                              |

Stick logger supports GPRS, WIFI, 4G, Ethernet and other communication modes. Its bluetooth function enables local debugging configuration to collect operation and power generation data from inverters.

It pairs with solarman professional platform to enable remote PV system monitoring and to realize distributed power station management with lower cost and higher efficiency.

# Deye Cloud



Support the establishment, data collection, monitoring, operation, maintenance, and after-sales services for new energy power stations like photovoltaic, energy storage, and micro-inverters.

The Deye Smart Cloud Big Data platform enables transparent management of all power station types, enhancing their value. It offers a variety of power station and equipment types, comprehensive monitoring, efficient troubleshooting, intelligent data analysis, energy flow visualization, and diverse management modes.

Additionally, our new data center feature allows collaboration with merchants for shared operation and maintenance, ensuring power station security and stability.



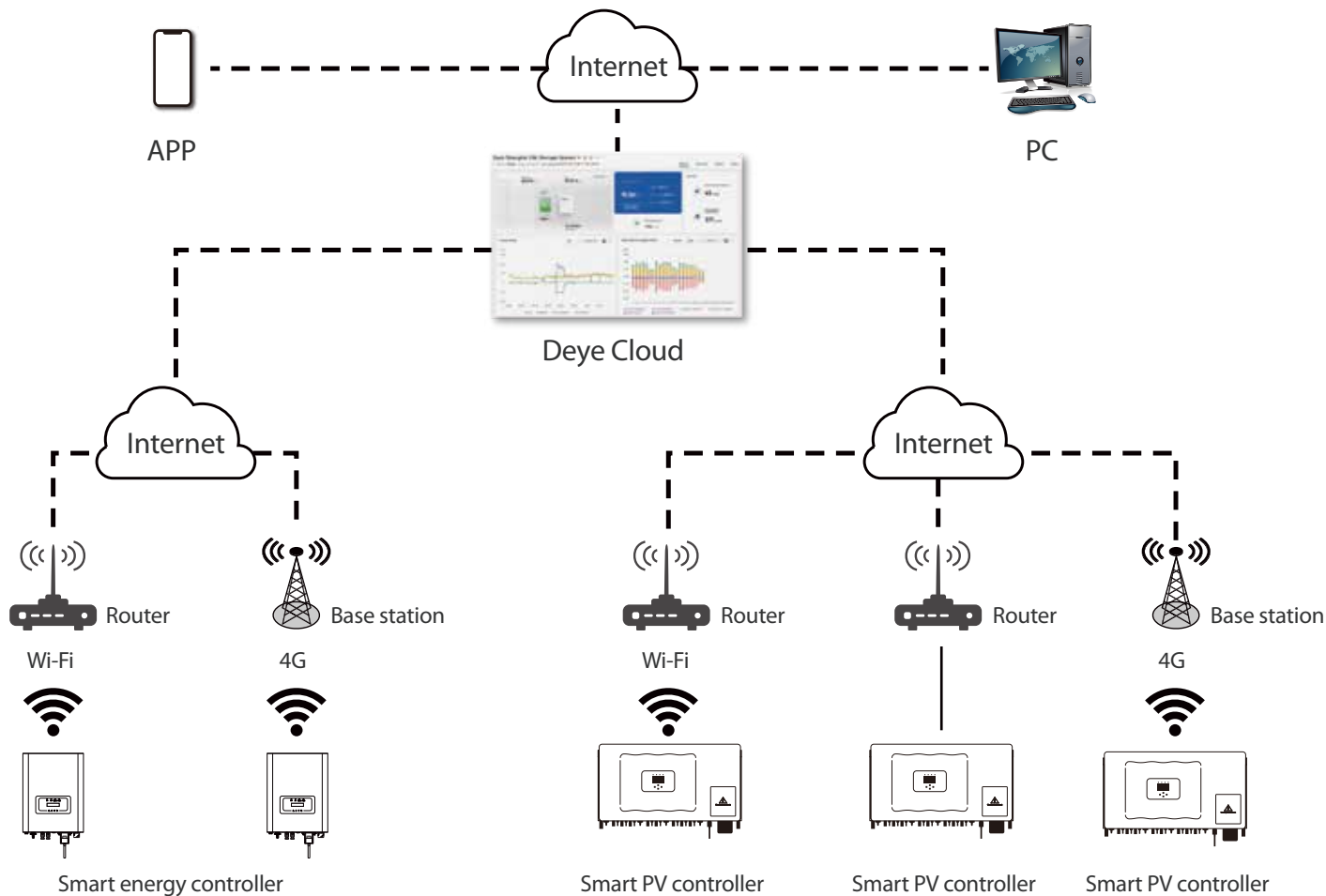
All in one

- Supports multiple devices such as photovoltaic, batteries, wind turbines, power grids, micro-inverters, diesel generators, loads, UPS, and Smartload in all aspects;
- Supports both business users and owners in one APP.



Security

- Separate data centers in Europe and America;
- Comply with ETSI/EN 303645, GDPR.





- ▶ 20kW
- ▶ Germany
- ▶ SUN-10K-G



- ▶ 220kW
- ▶ China
- ▶ SUN-110K-G



- ▶ 5kW
- ▶ Australia
- ▶ SUN-5K-G

## Project cases



- ▶ 5kW/6kWh ESS
- ▶ Australia
- ▶ SUN-5K-SG/RW-W6.1-B



- ▶ 50kW/60kWh
- ▶ Australia
- ▶ SUN-50K/GE-F60

# Project cases



- ▶ 320kW
- ▶ Brazil
- ▶ SUN-80K-G



- ▶ 16kW
- ▶ South Africa
- ▶ SUN-8K-SG



- ▶ 150kW
- ▶ South Africa
- ▶ SUN-50K-SG

- ▶ 32kW
- ▶ South Africa
- ▶ SUN-8K-SG



- ▶ 6kW
- ▶ Italy
- ▶ SUN-6K-SG

# Project cases



- ▶ 48kW
- ▶ Lebanon
- ▶ SUN-12K-SG



- ▶ 12kW
- ▶ Myanmar
- ▶ SUN-12K-SG

- ▶ 120kW
- ▶ Philippines
- ▶ SUN-12K-SG



- ▶ 50kW
- ▶ India
- ▶ SUN-50K-SG



- ▶ 12kW
- ▶ Vietnam
- ▶ SUN-12K-SG