

Three Phase String Inverter

SUN-3/4/5/6/7/8/9/10/12K-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)

Deye

Stock Code: 605117.SH

Model	SUN-3K -G05-AU	SUN-4K -G05-AU	SUN-5K -G05-AU	SUN-6K -G05-AU	SUN-7K -G05-AU	SUN-8K -G05-AU	SUN-9K -G05-AU	SUN-10K -G05-AU	SUN-12K -G05-AU
Input Side									
Max. PV Input Power (kW)	4.5	6.0	7.5	9.0	10.5	12.0	13.5	15.0	16.5
Max. PV Input Voltage (V)	1000								
Min Input PV Operating Voltage Range (V)	120-1000								200~1000
Start-up PV Input Voltage (V)	140								250
MPPT Operating Range (V)	120~850								200~850
Max. PV Input Current (A)	13+13								
Max. Short Circuit Current (A)	19.5+19.5								
Number of MPPT / Strings per MPPT	2/1								
Output Side									
Rated Output Power (kW)	3	4	5	6	7	8	9	10	12
Rated Output Power (VA)	3	4	5	6	7	8	9	10	12
Max. Active Power (kW)	3	4	5	6	7	8	9	10	12
Nominal Output Voltage / Range (V)	3L/N/PE 380V/323V-418V, 400V/340V-440V								
Rated Grid Frequency (Hz)	50 / 60 (Optional)								
Operating Phase	Three phase								
Rated AC Grid Output Current (A)	4.3	5.8	7.2	8.7	10.1	11.6	13	14.5	17.4
Max. AC Output Current (A)	4.3	5.8	7.2	8.7	10.1	11.6	13	14.5	17.4
Output Power Factor	0.8 leading to 0.8 lagging								
Grid Current THD	<3%								
DC Injection Current (mA)	<0.5%								
Grid Frequency Range	47~52 or 57~62 (Optional)								
Efficiency									
Max. Efficiency	98.3%								
Euro Efficiency	97.5%								
MPPT Efficiency	>99%								
Protection									
DC Reverse-Polarity Protection	Yes								
AC Short Circuit Protection	Yes								
AC Output Overcurrent Protection	Yes								
Output Overvoltage Protection	Yes								
Insulation Resistance Protection	Yes								
Ground Fault Monitoring	Yes								
Anti-islanding Protection	Active Frequency Shift								
Temperature Protection	Yes								
Integrated DC Switch	Yes								
Remote software upload	Yes								
Remote change of operating parameters	Yes								
Protective Class	Class I								
Surge protection	DC Type II / AC Type II								
Overvoltage Category	DC Type II / AC Type III								
General Data									
Size (mm)	332W×457H×203D								
Weight (kg)	11								
Topology	Transformerless								
Internal Consumption	<1W (Night)								
Running Temperature	-25~65°C								
Ingress Protection	IP65								
Noise Emission (Typical)	≤ 30 dB								
Cooling Concept	Natural cooling								
Max. Operating Altitude Without Derating	4000m								
Warranty	5 years								
Grid Connection Standard	AS/NZS 4777.2								
Operating Surroundings Humidity	0-100%								
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2								
Features									
DC Connection	VP-D4B								
AC Connection	IP65 rated plug								
Display	LCD1602								
Interface	RS485/RS232/Wifi/LAN								