

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

Deye

Stock Code: 605117.SH

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/ 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(Frequency shift)			
Earth Fault Detection	Yes			
Overvoltage Load Drop Protection	Yes			
Residual Current (RCD) Detection	Yes			
Surge Protection Level	TYPE II(DC), TYPE II(AC)			
Protection Level	Class I			
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			