Single Phase String Inverter

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



Efficient

- 2 MPP trackers, Max. efficiency up to 97.7%

Intelligent

- String intelligent monitoring (optional)

Adaptive

- Zero export application, VSG application
- Wide output voltage range

Reliable

- Anti-PID function (Optional)
- Low start-up voltage of 80V

Technical Data

Model	SUN-7K-G02P1-EU-AM2	SUN-7.5K-G02P1-EU-AM2	SUN-8K-G02P1-EU-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	8.25	8.8
Rated AC Output Current (A)	31.9/30.5	34.1/32.7	36.4/34.8
Max. AC Output Current (A)	35/33.5	37.5/35.9	40/38.3
Rated output voltage	220/230 0.85Un-1.1Un L/N/PE		
Rated Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65		
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 Reverse Polarity Protection	Yes		
AC Output Overcurrent Protection	Yes		
AC Output Overvoltage Protection	Yes		
AC Output Short Circuit Protection	Yes		
Thermal Protection	Yes		
Insulation Impedance Detection	Yes		
DC Component Monitoring	Yes		
Arc Fault Circuit Interrupter (AFCI)	Optional		
Anti-islanding Protection	Yes		
Residual Current Detection	Yes		
DC Switch	Yes		
Surge Protection Level	TYPE II(DC), TYPE II(AC)		
Interface			
LCD/LED Display	LCD1602		
Communication Interface	RS485/RS232 /WiFi/LAN		
General Data			
Operating Temperature Range (°C)	-25 to +60°C, >45°C Derating		
Permissible Ambient Humidity	0-100%		
Permissible Altitude	3000m		
Noise (dB)	≤35		
Ingress Protection(IP) Rating	IP 65		
Inverter Topology	Non-Isolated		
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	5 Years		
Type of Cooling	Natural Cooling		
Grid Regulation	IEC 61727, IEC 62116, EN 50549, NRS 097, RD 140, UNE 217002, G99		
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2		