



Features

Efficient Higher Revenue

- 2 MPP Trackers, Max. input current per string: 20A
- 150% DC input oversizing
- Maximum efficiency of 98.4%. Wide MPPT voltage range: 200V-1000V
- Compatible with high power modules

Intelligent Simple O&M

- Smart I-V Curve Diagnosis Function: locate PV string faults accurately and automatically detect faults
- Intelligent Fault Detection: AC side voltage and current waveforms real-time recorded, fast fault location
- Support RS485/WiFi/4G: remote monitoring and operation via PC or mobile phones

Reliable Worry Free

- IP66 Protection degree: support outdoor installation
- AFCI Function (Optional): when an arc-fault is detected the inverter immediately stops operation

Data Sheet

Model	SG-3K	SG-4K	SG-5K	SG-6K	SG-8K	SG-10K
Input (DC)						
Max. Input Power	4.5KW	6KW	7.5KW	9KW	12KW	15KW
Max. Input Voltage	600V					
Start Voltage	80V					
Rated Input Voltage	360V					
MPPT Voltage Range	50~550V					
Number of MPP Trackers	2					
Number of String per MPPT	1/1					
Max. Current per MPPT	20A					
Max. Short Circuit Current per MPPT	26A					
Output (AC)						
Rated Output Power	3KW	4KW	5KW	6KW	8KW	10KW
Max. Output Current	15A	20A	25A	30A	40A	45.5A
Max. Output Power	3.3KVA	4.4KVA	5.5KVA	6.6KVA	8.8KVA	10KVA
Rated Grid Frequency	50Hz / 60Hz					
Rated Grid Voltage	220Vac / 230Vac / 240Vac					
Power Factor	> 0.99 (0.8 leading ~ 0.8 lagging)					
THDi	< 3% (Rated power)					
Efficiency						
Max. Efficiency	98.10%	98.30%			98.10%	
Euro. Efficiency	97.30%	97.40%			97.30%	
MPPT Efficiency	99.90%					
Protection						
Protection	DC reverse polarity protection, anti-islanding protection, AC short circuit protection, residual current monitoring unit, insulation resistance monitoring, ground fault monitoring, grid monitoring, PV string monitoring, surge protection, DC switch (optional), AFCI protection (optional)					
Communication						
Display	LCD / LED + APP					
Communication	RS485 / WIFI / 4G					
Standard Compliance						
Certification	IEC/EN 62109-1/2, IEC/EN 61000-6-1/3, EN50549, IEC61727/IEC62116, CEI0-21, C10/C11, G98/G99, RD244, UNE217001, UNE217002, TOR Erzeuger, AS4777, ABNT, NB/T 32004					
General Data						
Dimension (W*H*D) mm	380*380*160					
Weight	13KG					
Operating Temperature Range	-30°C~+60°C					
Cooling Method	Natural cooling					Smart Cooling
Protection Degree	IP66					
Max. Operating Altitude	4000m					
Relative Humidity	0~100%					
Topology	Transformerless					
Night Power Consumption	< 1W					