

SL17-25KRG-W

Three Phase Grid-tied Inverter



reddot design award



High Yield & Efficiency

- SiC power components to increase power generation;
- 150% PV array oversizing, 110% AC output overloading, 16 A input current per string to compatible with bifacial and large PV modules;
- Intergrated anti-PID (Potential Induced Degradation) functions, Significantly reduce the negative effect of PID;
- Low start-up voltage and wide MPP voltage for more power generation time;



Aesthetic & Compact

- Screw free cover design, Integrated molding box without welding, good aesthetic & product stability and consistency;
- Light weight, small volume and compact size;
- Aluminum die casting shell with reinforcing bars, 3 layer effective waterproof design, to resist harsh environment;



Safe & Reliable

- Type II AC&DC Surge Protection;
- Adapt film bus capacitors to improve reliability of system;
- IP66 protection rating, C5 anti-corrosion rating, high environmental adaptability system Integration;
- Supports AFCI Protection, preventing sparking or arcing that may potentially cause an electrical fire;
- Built in RS485, supports WiFi and 4G, Firmware update remotely or by USB interface;
- LED indicators for different status, LCD display for realtime data read;



Smart Management

- Support intelligent automatic I-V curve scanning for fault diagnosis, precise positioning of the abnormal string;
- Free online real-time monitoring of system power generation and energy management for end user, installer and retailer;

Model	SL17KRG-W	SL20KRG-W	SL22KRG-W	SL25KRG-W
Input Data (DC)				
Max. Input Power	25.5 kW	30 kW	33 kW	37.5 kW
Max. DC Voltage	1100 V			
Start-up Voltage	180 V			
Nominal Voltage	600 V			
MPPT Voltage Range	160-1000 V			
No. of MPP Trackers	2			
No. of PV Strings per MPP Tracker	2			
Max. Input Current per MPP Tracker	32 A			
Max. Input Short-circuit Current per MPPT	40 A			
Output Data (AC)				
Nominal Output Power	17 kW	20 kW	22 kW	25 kW
Max. AC Apparent Power	18.7 kVA	22 kVA	24.2 kVA	27.5 kVA
Nominal AC Voltage	230/400 V, 3L/N/PE or 3L/PE			
AC Grid Frequency	50/60 Hz			
Frequency Range	(45-55)/(55-65) Hz			
Max. Output Current (PF=0.9)	28.4 A	33.4 A	36.8 A	41.8 A
Power Factor	> 0.99			
Adjustable Power Factor Range	0.8 leading...0.8 lagging			
Max. Total Harmonic Distortion	<3% (Rated Power)			
Efficiency				
Max. Efficiency	98.5%			
European Efficiency	98.0%			
MPPT Efficiency	99.9%			
Protection				
Anti-flow Protection	Yes			
DC Reverse Polarity Protection	Yes			
DC Switch	Yes			
DC Surge Protection	Type II			
Insulation Resistance Monitoring	Yes			
Residual-current Monitoring Unit (GFCI)	Yes			
AC Short-circuit Protection	Yes			
AC Surge Protection	Type II			
Grid Monitoring	Yes			
Anti-islanding Protection	Yes			
Anti-PID Function	Yes			
AFCI Protection	Optional			
General Data				
Dimensions (W×H×D)	520 x 420 x 242 mm			
Weight	27 kg			
Operating Temperature Range	-25°C~+60°C (> 45°C derating)			
Relative Humidity	0-100%			
Altitude	4000 m (> 2000 m derating)			
Self-consumption at Night	<1 W			
Topology	Transformerless			
Cooling	Intelligent Air Cooling			
Protection Degree	IP66			
Guarantee Period	5 Years / 10 Years (Optional)			
Display	LED & LCD			
Communication	Yes: RS485/USB, Optional: 4G/WiFi			
Standards Compliance				
Grid Connection	NB/T 32004, G98/G99, VDE 0126/4105/0124, EN 50549-1/2, CEI0-21/CEI0-16, AS 4777.2, IEC 61727/62116, PEA, MEA, RD1699/661/413/244/2019, UNE 206006/206007, NTS Type A, UNE 217002/217001			
Safety Standards	IEC 62109-1/2			
Others	EN 61000-6-1/2/3/4, IEC 61683, IEC 60068(1,2,14,30)			