

SL100-110KRG-W

Three Phase Grid-tied Inverter



High Yield

- 9 MPPT to achieve maximum power output for complex application scenarios;
- 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 ;



User-friendly

- Independent AC terminal box design, save 30% installation time;
- Firmware update remotely or by USB interface;
- Online monitoring by slenergy Smart M app. via RS485/USB/Bluetooth, supports 4G/WiFi;
- Quick & Easy-to-install with basic tools, LED indicators for different status;



Safe and Reliable

- Aluminum die casting shell with reinforcing bars, 3 layer effective waterproof design, to resist harsh environment;
- Adapt film bus capacitors to improve reliability of system;
- Type II AC&DC Surge Protection;
- 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;



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	SL100KRG-W	SL110KRG-W
Input Data (DC)		
Max. Input Power	150 kW	165 kW
Max. DC Voltage	1100 V	
Start-up Voltage	180 V	
Nominal Voltage	600 V	
MPPT Voltage Range	200-1000 V	
No. of MPP Trackers	9	
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	100 kW	110 kW
Max. AC Apparent Power	110 kVA	121 kVA
Nominal AC Voltage	3L/N/PE, 220 V / 380 V, 230 V / 400 V	
AC Grid Frequency	50/60 Hz	
Frequency Range	(45-55)/(55-65) Hz	
Max. Output Current (PF=0.9)	166.7 A	175 A
Power Factor	> 0.99 (Rated)	
Adjustable Power Factor Range	0.8 leading...0.8 lagging	
Max. Total Harmonic Distortion	<3% (Rated Power)	
Efficiency		
Max. Efficiency	98.5%	
European Efficiency	98.1%	
MPPT Efficiency	99.9%	
Protection		
Anti-flow Protection	Optional	
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	
String Fault Monitoring	Yes	
AFCI Protection	Optional	
General Data		
Dimensions (W×H×D)	1040 x 700 x 350 mm	
Weight	88 kg	
Operating Temperature Range	-25°C~+60°C (>45°C derating)	
Relative Humidity	0-100%	
Altitude	4000 m (>3000 m derating)	
Self-consumption at Night	<4 W	
Topology	Transformerless	
Cooling	Intelligent Air Cooling	
Protection Rating	IP66	
Guarantee Period	5 Years / 10 Years (Optional)	
Display	LED	
Communication	Yes:RS485/USB/Bluetooth, 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 B, UNE 217002/217001	
Safety Standards	EN/IEC 62109-1/2	
Others	EN/IEC 61000-6-1/2/3/4, IEC 61683, IEC 60068(1,2,14,30)	