

SL100-136KRG-W

Three Phase Grid-tied Inverter



High Yield

- 9-12 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.



Safe & 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.



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.



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	SL136KRG-W
Input Data (DC)			
Max. Input Power	150 kW	165 kW	204 kW
Max. DC Voltage		1100 V	
Start-up Voltage		180 V	
Nominal Voltage	600 V	600 V	800 V
MPPT Voltage Range		200-1000 V	
No. of MPP Trackers	9	9	12
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	136 kW
Max. AC Apparent Power	110 kVA	121 kVA	149.6 kVA
Nominal AC Voltage	220/380 V, 3L/N/PE or 3L/PE	230/400 V, 3L/N/PE or 3L/PE	312/540 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)	166.7 A	175 A	160 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)		1040×700×350 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, VDE 4105, VDE 0124, EN 50549-1/2, CEI0-21/CEI0-16, AS 4777.2, IEC 61727, IEC 62116, PEA, MEA	
Safety Standards		EN/IEC 62109-1/2	
Others		EN/IEC 61000-6-1/2/3/4, IEC 61683, IEC 60068(1,2,14,30)	