

SL150KRG-W NEW

String Inverter for 1100 Vdc System



High Yield

- Several 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, Large input current per string to compatible with 700W+ 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 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;



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

- Supports 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	SL150KRG-W
Input Data (DC)	
Max. Input Power	225 kW
Max. DC Voltage	1100 V
Start-up Voltage	200 V
Nominal Voltage	600 V
MPPT Voltage Range	180-1000 V
No. of MPP Trackers	7
No. of PV Strings per MPP Tracker	3
Max. Input Current per MPP Tracker	48 A
Max. Input short Current per MPP Tracker	66 A
Output Data (AC)	
Nominal Output Power	150 kW
Max. AC Apparent Power	165 kVA
Nominal AC Voltage	230 V/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)	250.7 A
Power Factor	> 0.99
Adjustable Power Factor	0.8 leading...0.8 lagging
THDi	<3%
Efficiency	
Max. Efficiency	98.5%
European Efficiency	98.2%
MPPT Efficiency	99.9%
Protection	
DC Reverse Polarity Protection	Yes
DC Switch	Yes
DC Surge Protection	Type II
PID Repair	Optional
Insulation Resistance Monitoring	Yes
Residual-current Monitoring Unit	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	85 kg
Operating Temperature Range	-25° C- +60° C (45° C derating)
Relative Humidity	0-100%
Altitude	4000m (> 3000 m derating)
Self-consumption at Night	<4 W
Topology	Transformerless
Cooling	Intelligent Air Cooling
Ingress Protection Rating	IP66
Guarantee Period	5 Years / 10 Years (Optional)
Display	LED
Communication	Yes:RS485/USB, Optional:4G/WiFi/Bluetooth
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)