

SL17-25KRG-W Red Dot Winner 2024

Three phases Grid-connected Inverter



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) | | | |