SLENERGY

# SL30-50KRG-W

## Three Phase Grid-Connection Inverter


### Efficient Income

- 1.5 times over-distribution of DC input and 1.1 times overload of AC output
- Max. string current of 16A is supported, which is suitable for double-sided components
- 33~40kW@3 MPPT, 50kW@4 MPPT, suitable for multi-sided roof
- Internal integrated PID repair and protection functions
- SiC MOS tube design is introduced for boosting, which improves the efficiency of the whole machine and has unique heat flow design to achieve the smallest volume in the industry

### Safe and Reliable

- AC/DC secondary lightning protection to make the system safer
- The bus capacitor is designed with thin film capacitor to improve reliability
- Intelligent arc monitoring to ensure the safety of power stations

### Intelligent and Friendly

- Support intelligent I-V curve scanning, one-key diagnosis and AC voltage harmonic analysis
- Electrical components & LCD design, more friendly
- Support RS485/4G/WIFI and other communication modes
- The software supports rapid upgrade of USB port
- Screw-free face cover design, simple and elegant

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# SL30-50KRG-W

| Technical Data | SL30KRG-W | SL33KRG-W | SL36KRG-W | SL40KRG-W | SL50KRG-W |
|---|---|---|---|---|---|
| **Input Data (DC)** | | | | | |
| Max. Input Power (for Module STC) | 45 kW | 49.5 kW | 54 kW | 60 kW | 75 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 | 3 | | 4 | | |
| No. of PV Strings per MPP Tracker | 2 / 2 / 2 | | 2 / 2 / 2 / 2 | | |
| Max. Input Current per MPP Tracker | 32A*3 | | 32A*4 | | |
| Max. Input short Current per MPP Tracker | 40A*3 | | 40A*4 | | |
| **Output Data (AC)** | | | | | |
| Nominal Output Power | 30 kW | 33 kW | 36 kW | 40 kW | 50 kW |
| Max. AC Apparent Power | 33 kVA | 36 kVA | 39.6 kVA | 44 kVA | 55 kVA |
| Nominal AC Voltage | 230 V / 400 V | | | | |
| AC Grid Frequency (Range) | 50 / 60 Hz (45~55 Hz / 55~65 Hz) | | | | |
| Max. Output Current (PF=0.9) | 48.3 A | 54.5 A | 60 A | 66.7 A | 84.1 A |
| Adjustable Power Factor | 0.8leading...0.8lagging | | | | |
| THDi | <3% | | | | |
| AC Grid Connection Type | 3L/N/PE or 3L/PE | | | | |
| **Efficiency** | | | | | |
| Max. Efficiency | 98.4% | | | | |
| European Efficiency | 98.0% | | | | |
| MPPT Efficiency | 99.9% | | | | |
| **Protection** | | | | | |
| DC Reverse Polarity Protection | Yes | | | | |
| DC Switch | Yes | | | | |
| AC/DC Surge Protection | Type II | | | | |
| Insulation Resistance Monitoring | Yes | | | | |
| AC Short-circuit Protection | Yes | | | | |
| Grid Monitoring | Yes | | | | |
| Anti-islanding Protection | Yes | | | | |
| Residual-current Monitoring Unit | Yes | | | | |
| String Fault Monitoring | Optional | | | | |
| AFCI Protection | Optional | | | | |
| **General Data** | | | | | |
| Dimensions (W×H×D) | 590 x 480 x 237 mm | | | | |
| Weight | ≤32 kg | | | ≤34 kg | ≤35 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 and Communication** | | | | | |
| Display | LED & LCD | | | | |
| Communication | Yes:RS485/USB, Optional:4G/WiFi | | | | |
| **Criteria Met** | | | | | |
| Grid Connection Standards | G98/G99, VDE0126, VDE4105, VDE0124, EN50549-1/2, CEI0-21/CEI 0-16, AS4777.2, IEC61727, IEC62116, PEA, MEA | | | | |
| Safety Standards | IEC62109-1/2, IEC62116, IEC61727, IEC61683, IEC60068(1,2,14,30) | | | | |
| EMC Standards | EN61000-6-2/4 | | | | |

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