GINLONG TECHNOLOGIES CO.,LTD.

## Solis-(100-110)K-5G

# Solis Three Phase Grid-Tied Inverters

### Efficient

- 10 MPPTs, max. efficiency 98.7%
- > 150% DC/AC ratio
- High power tracking density 100MPPT/MW
- Compatible with bifacial modules

### Safe

- AFCI protection, proactively reduces fire risk
- Built-in PID recovery for better module performance (optional)
- Overvoltage load reduction and leakage current suppression technology, low failure rate
- Globally recognised branded componentry for longer life

### Smart

- Night SVG function
- Intelligent string monitoring, smart I-V curve scan
- Remote firmware upgrade with simple operation

### Economic

- Power line communication (PLC) (optional)
- DC side supports "Y" connector

### Models:

Solis-100K-5G

Solis-110K-5G

360° View

# DATASHEET

# Solis-(100-110)K-5G

| Models | 100K | 110K |
|---|---|---|
| **Input DC** | | |
| Max. input voltage | 1100 V | |
| Rated voltage | 600 V | |
| Start-up voltage | 195 V | |
| MPPT voltage range | 180-1000 V | |
| Max. input current | 10*26 A | |
| Max. short circuit current | 10*40 A | |
| MPPT number/Max. input strings number | 10/20 | |
| **Output AC** | | |
| Rated output power | 100 kW | 110 kW |
| Max. apparent output power | 110 kVA | 121 kVA |
| Max. output power | 110 kW | 121 kW |
| Rated grid voltage | 3/N/PE, 220 V / 380 V, 230 V / 400 V | |
| Rated grid frequency | 50 Hz / 60 Hz | |
| Rated grid output current | 152.0 A / 144.3 A | 167.1 A / 158.8 A |
| Max. output current | 167.1 A | 183.8 A |
| Power factor | >0.99 (0.8 leading - 0.8 lagging) | |
| THDi | <3% | |
| **Efficiency** | | |
| Max. efficiency | 98.7% | |
| EU efficiency | 98.3% | |
| **Protection** | | |
| DC reverse-polarity protection | Yes | |
| Short circuit protection | Yes | |
| Output over current protection | Yes | |
| Surge protection | DC Type II / AC Type II (AC Type I optional) | |
| Grid monitoring | Yes | |
| Anti-islanding protection | Yes | |
| Temperature protection | Yes | |
| Strings monitoring | Yes | |
| I/V Curve scanning | Yes | |
| Integrated AFCI | Yes (1) | |
| Integrated PID recovery | Optional | |
| Integrated DC switch | Yes | |
| Integrated AC switch | Optional | |
| **General Data** | | |
| Dimensions (W*H*D) | 1065*567*344.5 mm | |
| Weight | 91 kg | |
| Topology | Transformerless | |
| Self-consumption (night) | <2 W | |
| Operating ambient temperature range | -30 ~ +60°C | |
| Relative humidity | 0-100% | |
| Ingress protection | IP66 | |
| Cooling concept | Intelligent redundant fan-cooling | |
| Max. operation altitude | 4000 m | |
| Grid connection standard | VDE-AR-N 4105, VDE-AR-N 4110, VDE V 0124, VDE V 0126-1-1, UTE C15-712-1, NRS 097-1-2, G98, G99, EN 50549-1/-2, RD 1699, TOR, UNE 206006, UNE 206007-1, CEI 0-21, IEC61727, DEWA | |
| Safety/EMC standard | IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4 | |
| **Features** | | |
| DC connection | MC4 connector | |
| AC connection | OT terminal (max. 185 $mm^2$) | |
| Display | LCD | |
| Communication | RS485, Optional: Wi-Fi, GPRS, PLC | |

(1) Activation required.