

Solis-(80-110)K-5G-PRO

Solis Three Phase Grid-Tied Inverters

Efficient

- 6/8 MPPTs, max. efficiency 98.5%
- > 150% DC/AC ratio
- Compatible with bifacial modules

Smart

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

Safe

- IP66
- AFCI protection, proactively reduces fire risk
- Built-in PID recovery for better module performance (optional)
- Globally recognised branded componentry for longer life

Economic

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

Models:

Solis-80K-5G-PRO

Solis-100K-5G-PRO

Solis-110K-5G-PRO



DATASHEET

Solis-(80-110)K-5G-PRO

| Models | 80K | 100K | 110K |
|---|--|--|-------------------|
| Input DC | | | |
| Max. input voltage | | 1100 V | |
| Rated voltage | | 600 V | |
| Start-up voltage | | 180 V | |
| MPPT voltage range | | 160-1000 V | |
| Max. input current | 3*(40 A / 32 A) | | 4*(40 A / 32 A) |
| Max. short circuit current | 6*50 A | | 8*50 A |
| MPPT number/Max. input strings number | 6/12 | | 8/16 |
| Output AC | | | |
| Rated output power | 80 kW | 100 kW | 110 kW |
| Max. apparent output power | 88 kVA | 110 kVA | 121 kVA |
| Max. output power | 88 kW | 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 | 121.6 A / 115.5 A | 152.0 A / 144.3 A | 167.1 A / 158.8 A |
| Max. output current | 133.7 A | 167.1 A | 183.8 A |
| Power factor | >0.99 (0.8 leading - 0.8 lagging) | | |
| THDi | <3% | | |
| Efficiency | | | |
| Max. efficiency | | 98.5% | |
| EU efficiency | | 98.0% | |
| Protection | | | |
| DC reverse-polarity protection | | Yes | |
| Short circuit protection | | Yes | |
| Output over current protection | | Yes | |
| Surge protection | DC Type II / AC Type II | | |
| Grid monitoring | | Yes | |
| Anti-islanding protection | | Yes | |
| Temperature protection | | Yes | |
| Strings monitoring | | Yes | |
| I/V Curve scanning | | Yes | |
| Integrated AFCI (DC arc-fault circuit protection) | | Yes ⁽¹⁾ | |
| Integrated PID recovery | | Optional | |
| Integrated DC switch | | Yes | |
| Integrated AC switch | | Optional | |
| General Data | | | |
| Dimensions (W*H*D) | 1065*585*363 mm (with or without AC switch) | 1183*585*363 mm (with no AC switch); 1295*585*363 mm (with AC switch) | |
| Weight | 79.5 kg | 93 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 | G99, IEC61727, EN50549-1/2 | | |
| Safety/EMC standard | IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4 | | |
| Features | | | |
| DC connection | MC4 connector | | |
| AC connection | OT terminal (max. 240 mm ²) | | |
| Display | LCD | | |
| Communication | RS485, Optional: Wi-Fi, GPRS, PLC | | |

(1) Activation required.