

Solis-(50-75)K-LV-5G-PRO

Solis Three Phase Grid-Tied Inverters

Efficient

- 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-50K-LV-5G-PRO

Solis-60K-LV-5G-PRO

Solis-75K-LV-5G-PRO



DATASHEET

Solis-(50-75)K-LV-5G-PRO

| Models | 50K | 60K | 75K |
|---|---|-------------------------|-----------------------|
| Input DC | | | |
| Max. input voltage | | 800 V | |
| Rated voltage | | 450 V | |
| Start-up voltage | | 180 V | |
| MPPT voltage range | | 160 - 800 V | |
| Max. input current | 8 × 20 A | | 12 × 20 A |
| Max. short circuit current | | 8 × 50 A | |
| MPPT number / Max. input strings number | 8 / 8 | | 8 / 12 ⁽¹⁾ |
| Output AC | | | |
| Rated output power | 50 kW | 60 kW | 75 kW |
| Max. apparent output power | 55 kVA | 66 kVA | 75 kVA |
| Max. output power | 55 kW | 66 kW | 75 kW |
| Rated grid voltage | 3/(N)/PE, 220 V / 230 V | | |
| Rated grid frequency | 50 Hz / 60 Hz | | |
| Rated grid output current | 131.2 A / 125.5 A | 157.5 A / 150.6 A | 196.8 A / 188.3 A |
| Max. output current | 144.3 A | 173.2 A | 196.8 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 2.0 | | Optional | |
| Integrated PID Recovery | | Optional | |
| Integrated DC switch | | Yes | |
| Integrated AC switch | | Optional | |
| General Data | | | |
| Dimensions (W × H × D) | 1183 × 585 × 363 mm (with no AC switch); 1295 × 585 × 363 mm (with AC switch) | | |
| Weight | 98 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 fan-cooling | | |
| Max. operation altitude | 4000 m | | |
| Grid connection standard | IEC 61727, IEC 62116, C10/11, VDE 4105, IEEE 1547 | | |
| Safety / EMC standard | IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4 | | |
| Features | | | |
| DC connection | MC4 connector | | |
| AC connection | OT terminal | | |
| Display | LCD | | |
| Communication | RS485, Optional: Wi-Fi, GPRS, PLC | | |

(1) One string per MPPT (PV2, PV4, PV6, PV8).