

Solis-1P(7-8)K-5G

Solis Single Phase Inverters



360 degree

Features:

- ▶ Max. efficiency 98.1%
- ▶ Complies with all state networks requirements
- ▶ Integrate with adjustable Volt-Watt and Volt-Var function
- ▶ DRM integrated, fully comply with AS4777.2:2015
- ▶ Built-in DC-PV2 Switch (optional), comply with AS/NZS 5033 requirements
- ▶ Support 24h consumption monitoring with a smart meter
- ▶ 2 MPPT design with precise MPPT algorithm
- ▶ Wide voltage range and low startup voltage
- ▶ Integrated Export Power Manager(EPM)
- ▶ Voltage active power and reactive power
- ▶ Lightweight, only 13.3kg – easy installation
- ▶ Friendly and adaptable connection to the grid



Model:

Solis-1P7K-5G

Solis-1P8K-5G

Datasheet

| Model Name | Solis-1P7K-5G | Solis-1P8K-5G |
|---------------------------------------|--|---------------|
| Input DC | | |
| Recommended max. PV power | 9.1 kW | 10.4 kW |
| Max. input voltage | 600 V | |
| Rated voltage | 330 V | |
| Start-up voltage | 120 V | |
| MPPT voltage range | 90-520 V | |
| Max. input current | 12.5 A / 25 A | |
| Max. short circuit current | 19.5 A / 39 A | |
| MPPT number/Max. input strings number | 2/3 | |
| Output AC | | |
| Rated output power | 7 kW | 8 kW |
| Max. apparent output power | 7.7 kVA | 8 kVA |
| Max. output power | 7.7 kW | 8 kW |
| Rated grid voltage | 1/N/PE, 230 V | |
| Rated grid frequency | 50 Hz | |
| Rated grid output current | 30.4 A | 34.8 A |
| Max. output current | 33.5 A | 34.8 A |
| Power Factor | >0.99 (0.8 leading - 0.8 lagging) | |
| THDi | <3% | |
| Efficiency | | |
| Max. efficiency | 98.1% | |
| EU efficiency | 97.3% | |
| Protection | | |
| DC reverse-polarity protection | Yes | |
| Short circuit protection | Yes | |
| Output over current protection | Yes | |
| Surge protection | Yes | |
| Grid monitoring | Yes | |
| Anti-islanding protection | Yes | |
| Temperature protection | Yes | |
| Integrated DC switch | Optional (PV2 Switch) | |
| General Data | | |
| Dimensions (W*H*D) | 310*543*180 mm | |
| Weight | 13.3 kg | |
| Topology | Transformerless | |
| Self consumption (night) | <1 W | |
| Operating ambient temperature range | -25 ~ +60°C | |
| Relative humidity | 0-100% | |
| Ingress protection | IP65 | |
| Cooling concept | Natural convection | |
| Max. operation altitude | 4000 m | |
| Grid connection standard | AS/NZS 4777.2 | |
| Safety/EMC standard | IEC 62109-1/-2, IEC 61000-6-1/-2/-3/-4 | |
| Features | | |
| DC connection | MC4 connector | |
| AC connection | Quick connection plug | |
| Display | LCD | |
| Communication | RS485, Optional: Wi-Fi, GPRS | |