

S6-GR1P(2.5-6)K

Solis Single Phase Grid-Tied Inverters

Features:

- Max. efficiency 97.7%
- String current up to 14A
- Super high frequency switching technology
- Wide voltage range and low startup voltage
- 2 MPPT design with precise MPPT algorithm
- Integrated Export Power Manager (EPM)
- AFCI protection, proactively reduces fire risk
- Compact and lightweight
- Friendly and adaptable connection to the grid

Models:

S6-GR1P2.5K / S6-GR1P3K

S6-GR1P3.6K / S6-GR1P4K

S6-GR1P4.6K / S6-GR1P5K

S6-GR1P6K



360° View



DATASHEET

S6-GR1P(2.5-6)K

| Models | 2.5K | 3K | 3.6K | 4K | 4.6K | 5K | 6K |
|---|---|-----------------|-----------------|-----------------|-----------------|-----------------|--------|
| Input DC | | | | | | | |
| Recommended max. PV power | 3.75 kW | 4.5 kW | 5.4 kW | 6 kW | 6.9 kW | 7.5 kW | 9 kW |
| Max. input voltage | 550 V | 600 V | | | | | |
| Rated voltage | 250 V | 330 V | | | | | |
| Start-up voltage | 60 V | 120 V | | | | | |
| MPPT voltage range | 50-450 V | 90-520 V | | | | | |
| Max. input current | 14 A / 14 A | | | | | | |
| Max. short circuit current | 22 A / 22 A | | | | | | |
| MPPT number/Max. input strings number | 2/2 | | | | | | |
| Output AC | | | | | | | |
| Rated output power | 2.5 kW | 3 kW | 3.6 kW | 4 kW | 4.6 kW | 5 kW | 6 kW |
| Max. apparent output power | 2.8 kVA | 3.3 kVA | 4 kVA | 4.4 kVA | 5 kVA | 5 kVA | 6 kVA |
| Max. output power | 2.8 kW | 3.3 kW | 4 kW | 4.4 kW | 5 kW | 5 kW | 6 kW |
| Rated grid voltage | 1/N/PE, 220 V / 230 V | | | | | | |
| Rated grid frequency | 50 Hz / 60 Hz | | | | | | |
| Rated grid output current | 11.4 A / 10.9 A | 13.6 A / 13.0 A | 16.0 A / 15.7 A | 18.2 A / 17.4 A | 20.9 A / 20.0 A | 22.7 A / 21.7 A | 27.3 A |
| Max. output current | 13.3 A | 15.7 A | 16.0 A | 21.0 A | 23.8 A | 25.0 A | 27.3 A |
| Power factor | >0.99 (0.8 leading - 0.8 lagging) | | | | | | |
| THDi | <3% | | | | | | |
| Efficiency | | | | | | | |
| Max. efficiency | 97.3% | 97.3% | | 97.6% | | 97.7% | |
| EU efficiency | 96.5% | 96.6% | | 97.1% | | 97.1% | |
| 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 AFCI (DC arc-fault circuit protection) | Yes ⁽¹⁾ | | | | | | |
| Integrated DC switch | Yes | | | | | | |
| General Data | | | | | | | |
| Dimensions (W*H*D) | 310*543*160 mm | | | | | | |
| Weight | 11 kg | 11.2 kg | 12 kg | | | | |
| Topology | Transformerless | | | | | | |
| Self-consumption (night) | <1 W | | | | | | |
| Operating ambient temperature range | -25 ~ +60°C | | | | | | |
| Relative humidity | 0-100% | | | | | | |
| Ingress protection | IP66 | | | | | | |
| Cooling concept | Natural convection | | | | | | |
| Max. operation altitude | 4000 m | | | | | | |
| Grid connection standard | G98 ⁽²⁾ or G99, VDE-AR-N 4105 / VDE V 0124, EN 50549-1, VDE 0126 / UTE C 15 / VFR:2019, RD 1699 / RD 244 / UNE 206006 / UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, EIFS 2018.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, MEA, PEA | | | | | | |
| Safety/EMC standard | IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-3 | | | | | | |
| Features | | | | | | | |
| DC connection | MC4 connector | | | | | | |
| AC connection | Quick connection plug | | | | | | |
| Display | LCD | | | | | | |
| Communication | RS485, Optional: Wi-Fi, GPRS | | | | | | |

(1) Activation required. (2) G98 for 2.5K-3.6K.