

S6-GR1P(2.5-6)K-S

Solis Single Phase Grid-Tied Inverters

Features:

- String current up to 16A
- Integrated with zero export power control function
- Light weight with compact design for easy installation
- 2 MPPT design with precise MPPT algorithm

Models:

S6-GR1P2.5K-S / S6-GR1P3K-S

S6-GR1P3.6K-S / S6-GR1P4K-S

S6-GR1P4.6K-S / S6-GR1P5K-S

S6-GR1P6K-S



DATASHEET

S6-GR1P(2.5-6)K-S

| 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 | | | | | | |
| Rated voltage | 250 V | 330 V | | | | | |
| Start-up voltage | 60 V | 100 V | | | | | |
| MPPT voltage range | 50-550 V | 90-550 V | | | | | |
| Max. input current | 16 A / 16 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 | 2.5 kVA | 3 kVA | 3.6 kVA | 4 kVA | 4.6 kVA | 5 kVA | 6 kVA |
| Max. output power | 2.5 kW | 3 kW | 3.6 kW | 4 kW | 4.6 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 A | 16 A / 15.7 A | 18.2 A / 17.4 A | 20.9 A / 20 A | 22.7 A / 21.7 A | 27.3 A / 26.1 A |
| Max. output current | 11.4 A | 13.6 A | 16 A | 18.2 A | 20.9 A | 22.7 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 2.0 | Optional | | | | | | |
| Integrated DC switch | Yes | | | | | | |
| General Data | | | | | | | |
| Dimensions (W*H*D) | 330*371*161 mm | | | | | | |
| Weight | 8.2 kg | 8.3 kg | | 8.9 kg | | 9 kg | |
| Topology | Transformerless | | | | | | |
| Self-consumption (night) | <1 W | | | | | | |
| Operating ambient temperature range | -25 ~ +60°C | | | | | | |
| Relative humidity | 0-100% | | | | | | |
| Ingress protection | IP66 | | | | | | |
| Noise emission (typical) | <20 dB(A) | | | | | | |
| Cooling concept | Natural convection | | | | | | |
| Max. operation altitude | 4000 m | | | | | | |
| Grid connection standard | G98 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, IEC60068, 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 | LED + APP | | | | | | |
| Communication | RS485, USB, Optional: Wi-Fi, GPRS | | | | | | |