

S6-GR1P(1-3)K-M

Solis Single Phase Grid-Tied Inverters

Features:

- Max. efficiency 97.5%
- String current up to 14A
- Super high frequency switching technology
- Wide voltage range and low startup voltage
- Precise MPPT algorithm
- Compact and lightweight
- Friendly and adaptable connection to the grid

Models:

S6-GR1P1K-M

S6-GR1P2K-M

S6-GR1P3K-M



DATASHEET

S6-GR1P(1-3)K-M

| Models | 1K | 2K | 3K |
|---|--|---------------|---------------|
| Input DC | | | |
| Recommended max. PV power | 1.5 kW | 3 kW | 4.5 kW |
| Max. input voltage | 550 V | | |
| Rated voltage | 330 V | | |
| Start-up voltage | 60 V | 90 V | |
| MPPT voltage range | 50 - 500 V | 80 - 500 V | |
| Max. input current | 14 A | | |
| Max. short circuit current | 22 A | | |
| MPPT number / Max. input strings number | 1 / 1 | | |
| Output AC | | | |
| Rated output power | 1 kW | 2 kW | 3 kW |
| Max. apparent output power | 1.1 kVA | 2.2 kVA | 3.3 kVA |
| Max. output power | 1.1 kW | 2.2 kW | 3.3 kW |
| Rated grid voltage | 1/N/PE, 220 V / 230 V | | |
| Rated grid frequency | 50 Hz / 60 Hz | | |
| Rated grid output current | 4.5 A / 4.3 A | 9.1 A / 8.7 A | 13.6 A / 13 A |
| Max. output current | 5.2 A | 10.5 A | 15.7 A |
| Power factor | > 0.99 (0.8 leading - 0.8 lagging) | | |
| THDi | < 3% | | |
| DC injection current | < 0.5% I _n | | |
| Efficiency | | | |
| Max. efficiency | 97.5% | | |
| EU efficiency | 97.0% | | |
| Protection | | | |
| DC reverse-polarity protection | Yes | | |
| Short circuit protection | Yes | | |
| Insulation resistance monitoring | Yes | | |
| Residual current detection | Yes | | |
| Output over current protection | Yes | | |
| Surge protection | T3 (DC), T2 (AC) | | |
| Grid monitoring | Yes | | |
| Anti-islanding protection | Yes | | |
| Temperature protection | Yes | | |
| Multi peak scan | Yes | | |
| Integrated AFCI | Yes ⁽¹⁾ | | |
| Integrated DC switch | Optional | | |
| General Data | | | |
| Dimensions (W*H*D) | 310 × 373 × 160 mm | | |
| Weight | 7.1kg | 7.4 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 cooling | | |
| Max. operation altitude | 4000 m | | |
| Grid connection standard | IEC 61683, IEC 60068, IEC 61727, IEC 62116, EN 50530, IS 16169/IS 16221(BIS) | | |
| 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: S3-WiFi-ST, S3-GRPS-ST | | |

(1) Activation required.