

S6-GR1P(1-3)K-M

Solis Mini Series Inverters

>> Models:

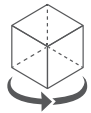
S6-GR1P1K-M

S6-GR1P1.5K-M

S6-GR1P2K-M

S6-GR1P2.5K-M

S6-GR1P3K-M



360° View



Features:

- Max. efficiency 97.1%
- String current up to **14A**
- Super high frequency switching technology
- Wide voltage range and low startup voltage
- Precise MPPT algorithm
- Intergrated Export Power Manager (EPM)
- AFCI protection, proactively reduces fire risk
- Compact and lightweight
- Friendly and adaptable connection to the grid

DATASHEET**S6-GR1P(1-3)K-M**

| Models | 1K | 1.5K | 2K | 2.5K | 3K |
|---|--|---------------|---------------|-----------------|---------------|
| Input DC | | | | | |
| Recommended max. PV power | 1.5 kW | 2.3 kW | 3 kW | 3.8 kW | 4.5 kW |
| Max. input voltage | 600 V | | | | |
| Rated voltage | 200 V | | 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 | 1.5 kW | 2 kW | 2.5 kW | 3 kW |
| Max. apparent output power | 1.1 kVA | 1.65 kVA | 2.2 kVA | 2.75 kVA | 3.3 kVA |
| Max. output power | 1.1 kW | 1.65 kW | 2.2 kW | 2.75 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 | 6.8 A / 6.5 A | 9.1 A / 8.7 A | 11.4 A / 10.9 A | 13.6 A / 13 A |
| Max. output current | 5.2 A | 8.1 A | 10.5 A | 13.3 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 | 96.6% | 96.6% | 97.1% | | 97.1% |
| EU efficiency | 95.3% | 95.4% | 96.6% | | 96.7% |
| 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*373*160 mm | | | | |
| Weight | 7.4 kg | | | 7.7 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 | 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: DLS-W, DLS-G | | | | |

(1) Activation required.