



S6-GR1P3K-M

Solis Mini Series Inverters

>> Models:
S6-GR1P3K-M



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-GR1P3K-M |
|--|--|
| Models | 3K |
| Input DC | |
| Recommended max. PV power | 4.5 kW |
| Max. input voltage | 600 V |
| Rated voltage | 330 V |
| Start-up voltage | 90 V |
| MPPT voltage range | 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 | 3 kW |
| Max. apparent output power | 3.3 kVA |
| Max. output power | 3.3 kW |
| Rated grid voltage | 1/N/PE, 220 V / 230 V |
| Rated grid frequency | 50 Hz / 60 Hz |
| Rated grid output current | 13.6 A / 13 A |
| Max. output current | 15.7 A |
| Power factor | >0.99 (0.8 leading - 0.8 lagging) |
| THDi | <3% |
| Efficiency | |
| Max. efficiency | 97.1% |
| EU efficiency | 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 |
| rated AFCI (DC arc-fault circuit protection) | Yes ⁽¹⁾ |
| Integrated DC switch | Optional |
| General Data | |
| Dimensions (W*H*D) | 310*373*160 mm |
| Weight | 7.7 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 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 |
| standard M E / y t e f a S | IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4 |
| Features | |
| DC connection | MC4 connector |
| AC connection | Quick connection plug |
| Display | LCD |
| Communication | RS485, Optional: Wi-Fi, GPRS |