

S5-GR1P(7-10)K

Solis Single Phase Grid-Tied Inverters

Features:

- Max. efficiency 98.0%
- Max. input current 14A
- Super high frequency switching technology
- Wide voltage range and low startup voltage
- 3 MPPT design with precise MPPT algorithm
- AFCI protection, proactively reduces fire risk
- Compact and lightweight
- Friendly and adaptable connection to the grid

Models:

S5-GR1P7K / S5-GR1P8K

S5-GR1P9K / S5-GR1P10K



DATASHEET

S5-GR1P(7-10)K

| Models | 7K | 8K | 9K | 10K |
|---|--|-----------------|-----------------|-----------------|
| Input DC | | | | |
| Recommended max. PV power | 10.5 kW | 12 kW | 13.5 kW | 15 kW |
| Max. input voltage | 600 V | | | |
| Rated voltage | 330 V | | | |
| Start-up voltage | 120 V | | | |
| MPPT voltage range | 100-500 V | | | |
| Max. input current | 14 A / 14 A / 14 A | | | |
| Max. short circuit current | 22 A / 22 A / 22 A | | | |
| MPPT number/Max. input strings number | 3/3 | | | |
| Output AC | | | | |
| Rated output power | 7 kW | 8 kW | 9 kW | 10 kW |
| Max. apparent output power | 7.7 kVA | 8.8 kVA | 9.9 kVA | 10 kVA |
| Max. output power | 7.7 kW | 8.8 kW | 9.9 kW | 10 kW |
| Rated grid voltage | 1/N/PE, 220 V / 230 V | | | |
| Rated grid frequency | 50 Hz / 60 Hz | | | |
| Rated grid output current | 31.8 A / 30.4 A | 36.4 A / 34.8 A | 40.9 A / 39.1 A | 45.5 A / 43.5 A |
| Max. output current | 33.7 A | 36.6 A | 41.3 A | 45.9 A |
| Power factor | >0.99 (0.8 leading - 0.8 lagging) | | | |
| THDi | <3% | | | |
| Efficiency | | | | |
| Max. efficiency | 98.0% | | | |
| EU efficiency | 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 | Optional | | | |
| General Data | | | | |
| Dimensions (W*H*D) | 333*579*253 mm | | | |
| Weight | 18.5 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 | G99, EN 50549-1, IEC 62116, IEC 61727, IEC60068, IEC 61683, EN 50530 | | | |
| Safety/EMC standard | IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4 | | | |
| Features | | | | |
| DC connection | MC4 connector | | | |
| AC connection | OT Terminal | | | |
| Display | LCD | | | |
| Communication | RS485, Optional: Wi-Fi, GPRS | | | |

(1) Activation required.