

## S5-GR1P(7-10)K

# Solis Single Phase Grid-Tied Inverters

### Features:

- Max. efficiency 98.0%
- Max. input current 14A
- Complies with all state network requirements
- Integrate with adjustable Volt-Watt and Volt-Var function
- DRM integrated, fully comply with AS/NZS 4777.2:2020
- Built-in DC-PV2 Switch, comply with AS/NZS 5033 requirements
- Support 24h consumption monitoring with a smart meter
- Super high frequency switching technology
- 3 MPPT design with precise MPPT algorithm
- AFCI protection, proactively reduces fire risk
- Integrated Export Power Manager(EPM)
- Compact and lightweight
- Voltage active power and reactive power

### Models:

S5-GR1P7K / S5-GR1P8K

S5-GR1P9K / S5-GR1P10K



# DATASHEET

## S5-GR1P(7-10)K

| Models  | 7K   | 8K      | 9K     | 10K     |
|---|--|---------|--------|---------|
| <b>Input DC</b>                                   |  |         |        |         |
| Recommended max. PV power                         | 9.3 kW   | 10.6 kW | 12 kW  | 13.3 kW |
| Max. input voltage                                | 600V   |         |        |         |
| Rated voltage                                     | 330V   |         |        |         |
| Start-up voltage                                  | 120V   |         |        |         |
| MPPT voltage range                                | 100-500V   |         |        |         |
| 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  |         |        |         |
| <b>Output AC</b>                                  |  |         |        |         |
| Rated output power                                | 7 kW   | 8 kW    | 9 kW   | 10 kW   |
| Rated apparent output power                       | 7 kVA  | 8 kVA   | 9 kVA  | 10 kVA  |
| Max. apparent output power                        | 7 kVA  | 8 kVA   | 9 kVA  | 10 kVA  |
| Max. output power                                 | 7 kW   | 8 kW    | 9 kW   | 10 kW   |
| Rated grid voltage                                | 1/N/PE, 230 V  |         |        |         |
| Rated grid frequency                              | 50 Hz  |         |        |         |
| Rated grid output current                         | 33.7 A   | 36.6 A  | 41.3 A | 45.9 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%  |         |        |         |
| <b>Efficiency</b>                                 |  |         |        |         |
| Max. efficiency                                   | 98.0%  |         |        |         |
| EU efficiency                                     | 97.1%  |         |        |         |
| <b>Protection</b>                                 |  |         |        |         |
| 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 <sup>(1)</sup>   |         |        |         |
| Integrated DC switch                              | Yes (PV2 Switch)   |         |        |         |
| <b>General Data</b>                               |  |         |        |         |
| 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                          | AS/NZS 4777.2:2020, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530 |         |        |         |
| Safety/EMC standard                               | IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4                             |         |        |         |
| <b>Features</b>                                   |  |         |        |         |
| DC connection                                     | MC4 connector  |         |        |         |
| AC connection                                     | OT Terminal  |         |        |         |
| Display   | LCD  |         |        |         |
| Communication                                     | RS485, Optional: Wi-Fi, GPRS   |         |        |         |
| Country of manufacture                            | China  |         |        |         |

(1) Activation required.