## S6-GR1P(4-5)K-S

# Solis Single Phase Grid-Tied Inverters

### Features:

- String current up to 16A

- Integrated with zero export power control function

- Light weight with compact design for easy installation

- 2 MPPT design with precise MPPT algorithm

### Models:

S6-GR1P4K-S / S6-GR1P4.6K-S

S6-GR1P5K-S

**NEW**

# DATASHEET S6-GR1P(4-5)K-S

| Models | 4K | 4.6K | 5K |
|---|---|---|---|
| **Input DC** | | | |
| Recommended max. PV power | 6 kW | 6.9 kW | 7.5 kW |
| Max. input voltage | | 550 V | |
| Rated voltage | | 330 V | |
| Start-up voltage | | 100 V | |
| MPPT voltage range | | 90-550 V | |
| Max. input current | | 16 A / 16 A | |
| Max. short circuit current | | 22 A / 22 A | |
| MPPT number/Max. input strings number | | 2/2 | |
| **Output AC** | | | |
| Rated output power | 4 kW | 4.6 kW | 5 kW |
| Max. apparent output power | 4 kVA | 4.6 kVA | 5 kVA |
| Max. output power | 4 kW | 4.6 kW | 5 kW |
| Rated grid voltage | | 1/N/PE, 220 V / 230 V | |
| Rated grid frequency | | 50 Hz / 60 Hz | |
| Rated grid output current | 18.2 A / 17.4 A | 20.9 A / 20 A | 22.7 A / 21.7 A |
| Max. output current | 18.2 A | 20.9 A | 22.7 A |
| Power factor | | >0.99 (0.8 leading - 0.8 lagging) | |
| THDi | | <3% | |
| DC injection current | | <0.5% In | |
| **Efficiency** | | | |
| Max. efficiency | | 97.6% | 97.7% |
| EU efficiency | | 97.1% | 97.1% |
| **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 | | 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) | | 330*371*161 mm | |
| Weight | | 8.9 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 61000-6-2/-3 | |
| **Features** | | | |
| DC connection | | MC4 connector | |
| AC connection | | Quick connection plug | |
| Display | | LED + APP | |
| Communication | | RS485, USB, Optional: S3-WiFi-ST, S3-GRPS-ST | |

(1) Activation required.