

## S6-GR1P(0.7-3.6)K-M

# Solis Single Phase Grid-Tied Inverters

### Features:

- Max. efficiency 97.3%
- Wide voltage range and low startup voltage
- Supports export power control
- AFCI protection, proactively reduces fire risk
- 24-hour load consumption monitoring
- Adaptive weak grid

### Models:

S6-GR1P0.7K-M / S6-GR1P1K-M

S6-GR1P1.5K-M / S6-GR1P2K-M

S6-GR1P2.5K-M / S6-GR1P3K-M

S6-GR1P3.6K-M



360° View



## S6-GR1P(0.7-3.6)K-M

| Models                                  | 0.7K                                                                                                                                                                                                                             | 1K            | 1.5K          | 2K            | 2.5K            | 3K            | 3.6K    |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------|---------------|-----------------|---------------|---------|
| Input DC                                |                                                                                                                                                                                                                                  |               |               |               |                 |               |         |
| Recommended max. PV power               | 1.1 kW                                                                                                                                                                                                                           | 1.5 kW        | 2.3 kW        | 3 kW          | 3.8 kW          | 4.5 kW        | 5.4 kW  |
| Max. input voltage                      | 550 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                                                                                                                                                                                                                             |               |               |               |                 |               | 19 A    |
| Max. short circuit current              | 22 A                                                                                                                                                                                                                             |               |               |               |                 |               | 24 A    |
| MPPT number / Max. input strings number | 1 / 1                                                                                                                                                                                                                            |               |               |               |                 |               | 1 / 2   |
| Output AC                               |                                                                                                                                                                                                                                  |               |               |               |                 |               |         |
| Rated output power                      | 0.7 kW                                                                                                                                                                                                                           | 1 kW          | 1.5 kW        | 2 kW          | 2.5 kW          | 3 kW          | 3.6 kW  |
| Max. apparent output power              | 0.77 kVA                                                                                                                                                                                                                         | 1.1 kVA       | 1.65 kVA      | 2.2 kVA       | 2.75 kVA        | 3.3 kVA       | 3.6 kVA |
| Max. output power                       | 0.77 kW                                                                                                                                                                                                                          | 1.1 kW        | 1.65 kW       | 2.2 kW        | 2.75 kW         | 3.3 kW        | 3.6 kW  |
| Rated grid voltage                      | 1/N/PE, 220 V / 230 V                                                                                                                                                                                                            |               |               |               |                 |               |         |
| Rated grid frequency                    | 50 Hz                                                                                                                                                                                                                            |               |               |               |                 |               |         |
| Rated grid output current               | 3.2 A / 3.0 A                                                                                                                                                                                                                    | 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 | 16 A    |
| Max. output current                     | 4.4 A                                                                                                                                                                                                                            | 5.2 A         | 8.1 A         | 10.5 A        | 13.3 A          | 15.7 A        | 16 A    |
| Power factor                            | > 0.99 (0.8 leading - 0.8 lagging)                                                                                                                                                                                               |               |               |               |                 |               |         |
| THDi                                    | < 3%                                                                                                                                                                                                                             |               |               |               |                 |               |         |
| Efficiency                              |                                                                                                                                                                                                                                  |               |               |               |                 |               |         |
| Max. efficiency                         | 96.6%                                                                                                                                                                                                                            |               | 96.6%         | 97.1%         | 97.1%           |               | 97.3%   |
| EU efficiency                           | 95.3%                                                                                                                                                                                                                            |               | 95.4%         | 96.4%         | 96.7%           |               | 96.8%   |
| 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           |                 |               |         |
| Multi peak scan                         |                                                                                                                                                                                                                                  |               |               | Yes           |                 |               |         |
| Integrated AFCI 2.0                     |                                                                                                                                                                                                                                  |               |               | Optional      |                 |               |         |
| Integrated DC switch                    |                                                                                                                                                                                                                                  |               |               | Yes           |                 |               |         |
| General Data                            |                                                                                                                                                                                                                                  |               |               |               |                 |               |         |
| Dimensions (W × H × D)                  | 310 × 373 × 160 mm                                                                                                                                                                                                               |               |               |               |                 |               |         |
| Weight                                  | 7.7 kg                                                                                                                                                                                                                           |               |               | 8 kg          |                 |               | 8.1 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 cooling                                                                                                                                                                                                                  |               |               |               |                 |               |         |
| 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 |               |               |               |                 |               |         |
| Safety / EMC standard                   | 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                                                                                                                                                                                                     |               |               |               |                 |               |         |