

## S6-GC(100-125)K

# Solis Three Phase Grid-Tied Inverters

### Efficient

- 10 MPPTs, max. efficiency 98.7%
- > 150% DC/AC ratio
- String current up to 21A, perfectly match large current bifacial modules

### Smart

- Supports export power control
- Intelligent string monitoring, smart I-V curve scan
- Remote firmware upgrade with simple operation

### Safe

- IP66
- AFCI protection, proactively reduces fire risk
- Globally recognised branded componentry for longer life

### Economic

- Power line communication (PLC) (optional)
- Night time PID recovery function, increases overall system yield (optional)
- DC side supports "Y" connector

### Models:

S6-GC100K

S6-GC110K

S6-GC125K



## DATASHEET

## S6-GC(100-125)K

| Models                                  | 100K                                    | 110K              | 125K              |
|---|---|-------------------|-------------------|
| <b>Input DC</b>                         |   |                   |                   |
| Max. input voltage                      |   | 1100 V            |                   |
| Rated voltage                           |   | 600 V             |                   |
| Start-up voltage                        |   | 180 V             |                   |
| MPPT voltage range                      |   | 160 - 1000 V      |                   |
| Max. input current                      |   | 5 × (42 A / 36 A) |                   |
| Max. short circuit current              |   | 10 × 50 A         |                   |
| MPPT number / Max. input strings number |   | 10 / 20           |                   |
| <b>Output AC</b>                        |   |                   |                   |
| Rated output power                      | 100 kW                                  | 110 kW            | 125 kW            |
| Max. apparent output power              | 110 kVA                                 | 121 kVA           | 125 kVA           |
| Rated grid voltage                      | 3/N/PE, 220 V / 380 V, 230 V / 400 V    |                   |                   |
| Rated grid frequency                    | 50 Hz / 60 Hz                           |                   |                   |
| Rated grid output current               | 152.0 A / 144.3 A                       | 167.1 A / 158.8 A | 189.9 A / 180.4 A |
| Max. output current                     | 167.1 A                                 | 183.8 A           | 189.9 A           |
| Power factor                            | > 0.99 (0.8 leading - 0.8 lagging)      |                   |                   |
| THDi                                    | < 3%                                    |                   |                   |
| <b>Efficiency</b>                       |   |                   |                   |
| Max. efficiency                         | 98.7%                                   |                   |                   |
| EU efficiency                           | 98.3%                                   |                   |                   |
| <b>Protection</b>                       |   |                   |                   |
| DC reverse-polarity protection          | Yes                                     |                   |                   |
| Short circuit protection                | Yes                                     |                   |                   |
| Output over current protection          | Yes                                     |                   |                   |
| Surge protection                        | DC Type II / AC Type II                 |                   |                   |
| Grid monitoring                         | Yes                                     |                   |                   |
| Anti-islanding protection               | Yes                                     |                   |                   |
| Temperature protection                  | Yes                                     |                   |                   |
| Strings monitoring                      | Yes                                     |                   |                   |
| I/V Curve scanning                      | Yes                                     |                   |                   |
| Integrated AFCI 2.0                     | Optional                                |                   |                   |
| Integrated PID recovery                 | Optional                                |                   |                   |
| Integrated DC switch                    | Yes                                     |                   |                   |
| Integrated AC switch                    | Optional                                |                   |                   |
| <b>General Data</b>                     |   |                   |                   |
| Dimensions (W*H*D)                      | 1014 × 567 × 345 mm                     |                   |                   |
| Weight                                  | 96 kg                                   |                   |                   |
| Topology                                | Transformerless                         |                   |                   |
| Self-consumption (night)                | < 2 W                                   |                   |                   |
| Operating ambient temperature range     | -30 ~ +60°C                             |                   |                   |
| Relative humidity                       | 0 - 100%                                |                   |                   |
| Ingress protection                      | IP66                                    |                   |                   |
| Cooling concept                         | Intelligent fan-cooling                 |                   |                   |
| Max. operation altitude                 | 4000 m                                  |                   |                   |
| Grid connection standard                | G99, IEC61727, EN50549-1/2, VDE4110     |                   |                   |
| Safety / EMC standard                   | IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4  |                   |                   |
| <b>Features</b>                         |   |                   |                   |
| DC connection                           | MC4 connector                           |                   |                   |
| AC connection                           | OT terminal (max. 240 mm <sup>2</sup> ) |                   |                   |
| Display                                 | LCD                                     |                   |                   |
| Communication                           | RS485, Optional: Wi-Fi, GPRS, PLC       |                   |                   |