

## S6-GC125K

# 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-GC125K



# DATASHEET

## S6-GC125K

| Models                                  | 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                      | 125 kW (@50°C 415Vac)                        |
| Max. apparent output power              | 125 kVA (@50°C 415Vac)                       |
| Max. output power                       | 125 kW (@50°C 415Vac)                        |
| Rated grid voltage                      | 3/N/PE, 230 V / 400 V, 240 V / 415 V         |
| Rated grid frequency                    | 50 Hz  |
| Rated grid output current               | 180.4 A                                      |
| Max. output current                     | 180.4 A                                      |
| Power factor                            | > 0.99 (0.8 leading - 0.8 lagging)           |
| THDi                                    | < 3%   |
| DC injection current                    | 0.5%I <sub>n</sub>                           |
| <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  |
| Insulation resistance monitoring        | Yes  |
| Residual current detection              | 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: S3-WiFi-ST, S3-GRPS-ST, PLC |