

S5-GC(100-125)K

Solis Three Phase Grid-Tied Inverters

Efficient

- 10 MPPTs, max. efficiency 99.0%
- > 150% DC/AC ratio
- High power tracking density 100MPPT/MW
- String current up to 16A, perfectly match large current bifacial modules

Smart

- Night SVG function
- Intelligent string monitoring, smart I-V curve scan
- Remote firmware upgrade with simple operation

Safe

- AFCI protection, proactively reduces fire risk
- Built-in PID recovery for better module performance (optional)
- Overvoltage load reduction and leakage current suppression technology, low failure rate
- Globally recognised branded componentry for longer life

Economic

- Power line communication (PLC) (optional)
- DC side supports "Y" connector

Models:

S5-GC100K

S5-GC110K

S5-GC125K-HV



DATASHEET

S5-GC(100-125)K

| Models | 100K | 110K | 125K-HV |
|---|---|-------------------|-------------|
| Input DC | | | |
| Max. input voltage | 1100 V | | |
| Rated voltage | 600 V | | 720 V |
| Start-up voltage | 195 V | | |
| MPPT voltage range | 180 - 1000 V | | |
| Max. input current | 10 × 32 A | | |
| Max. short circuit current | 10 × 40 A | | |
| MPPT number / Max. input strings number | 10 / 20 | | |
| Output AC | | | |
| Rated output power | 100 kW | 110 kW | 125 kW |
| Max. apparent output power | 110 kVA | 121 kVA | 137.5 kVA |
| Max. output power | 110 kW | 121 kW | 137.5 kW |
| Rated grid voltage | 3/N/PE, 220 V / 380 V, 230 V / 400 V | | 3/PE, 480 V |
| Rated grid frequency | 50 Hz / 60 Hz | | |
| Rated grid output current | 152.0 A / 144.3 A | 167.1 A / 158.8 A | 150.4 A |
| Max. output current | 167.1 A | 183.8 A | 165.4 A |
| Power factor | > 0.99 (0.8 leading - 0.8 lagging) | | |
| THDi | < 3% | | |
| Efficiency | | | |
| Max. efficiency | 98.7% | | 99.0% |
| EU efficiency | 98.3% | | 98.6% |
| Protection | | | |
| DC reverse-polarity protection | Yes | | |
| Short circuit protection | Yes | | |
| Output over current protection | Yes | | |
| Surge protection | DC Type II / AC Type II (AC Type I optional) | | |
| 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 | | |
| General Data | | | |
| Dimensions (W × H × D) | 1065 × 567 × 344.5 mm | | |
| Weight | 91 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 | VDE-AR-N 4105, VDE-AR-N 4110, VDE V 0124, VDE V 0126-1-1, UTE C15-712-1, NRS 097-1-2, G98, G99, EN 50549-1/-2, RD 1699, TOR, UNE 206006, UNE 206007-1, CEI 0-21, IEC61727, DEWA | | |
| Safety / EMC standard | IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4 | | |
| Features | | | |
| DC connection | MC4 connector | | |
| AC connection | OT terminal (max. 185 mm ²) | | |
| Display | LCD | | |
| Communication | RS485, Optional: Wi-Fi, GPRS, PLC | | |