

S5-GC(15-23)K-LV

Solis Three Phase Inverters



360 degree

Model:

220V: S5-GC15K-LV S5-GC20K-LV S5-GC23K-LV



Efficient

- ▶ Max. efficiency 98.3%
- ▶ String current up to **16A**
- ▶ 3 MPPT design, supports multiple orientation system design
- ▶ Night time PID recovery function, increases overall system yield (optional)
- ▶ Wide voltage range and low startup voltage



Smart

- ▶ Supports export power control
- ▶ Intelligent string monitoring, smart I-V curve scan
- ▶ Supports RS485, WiFi, GPRS
- ▶ Scan to register on SolisCloud, supports remote upgrade and control



Safe

- ▶ IP66
- ▶ AFCI protection, proactively reduces fire risk
- ▶ Globally recognised branded componentry for longer life
- ▶ Intelligent redundant fan-cooling



Economic

- ▶ Supports GPRS/WiFi communication with less wiring and reduced installation costs
- ▶ > 150% DC/AC ratio
- ▶ Supports high power modules for lower installation costs
- ▶ Supports aluminium wire access to reduce cost

Datasheet

| Model Name | S5-GC15K-LV | S5-GC20K-LV | S5-GC23K-LV |
|---|--|-------------|-------------|
| Input DC | | | |
| Recommended max. PV power | 22.5 kW | 30 kW | 34.5 kW |
| Max. input voltage | 1100 V | | |
| Rated voltage | 600 V | | |
| Start-up voltage | 180 V | | |
| MPPT voltage range | 200-1000 V | | |
| Max. input current | 32 A / 32 A / 32 A | | |
| Max. short circuit current | 50 A / 50 A / 50 A | | |
| MPPT number/Max. input strings number | 3/6 | | |
| Output AC | | | |
| Rated output power | 15 kW | 20 kW | 23 kW |
| Max. apparent output power | 16.5 kVA | 22 kVA | 25 kVA |
| Max. output power | 16.5 kW | 22 kW | 25 kW |
| Rated grid voltage | 3/PE, 220 V | | |
| Rated grid frequency | 50 Hz / 60 Hz | | |
| Rated grid output current | 39.4 A | 52.5 A | 60.4 A |
| Max. output current | 43.3 A | 57.7 A | 65 A |
| Power Factor | >0.99 (0.8 leading - 0.8 lagging) | | |
| THDi | <3% | | |
| Efficiency | | | |
| Max. efficiency | 98.0% | | |
| EU efficiency | 97.5% | | |
| Protection | | | |
| 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 PID recovery | Optional | | |
| Integrated AFCI (DC arc-fault circuit protection) | Yes ⁽¹⁾ | | |
| Integrated DC switch | Optional | | |
| General Data | | | |
| Dimensions (W*H*D) | 647*629*252 mm | | |
| Weight | 37 kg | | |
| Topology | Transformerless | | |
| Self consumption (night) | <1 W | | |
| Operating ambient temperature range | -25 ~ +60°C | | |
| Relative humidity | 0-100% | | |
| Ingress protection | IP66 | | |
| Cooling concept | Intelligent redundant fan-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, TOR, EIFS 2018.2, IEC 62116, IEC 61727, IEC60068, IEC 61683, EN 50530 | | |
| 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 | | |
| Display | LCD | | |
| Communication | RS485, Optional: Wi-Fi, GPRS | | |

(1) Activation required.