

S6-GC3P(15-20)K03-LV-ND

Solis Three Phase Grid-Tied Inverters

Features:

- Max. efficiency 97.8%
- String current up to 20A
- > 150% DC/AC ratio, supports high power modules
- Automatic voltage stabilization technology in weak grid conditions
- AFCI protection, proactively reduces fire risk
- Supports RS485/ WiFi/GPRS/4G
- Scan to register on SolisCloud, supports remote upgrade and control

Models:

S6-GC3P15K03-LV-ND

S6-GC3P20K03-LV-ND



DATASHEET
S6-GC3P(15-20)K03-LV-ND

| Models | 15K | 20K |
|---|--|-----------------|
| Input DC | | |
| Recommended max. PV power | 22.5 kW | 30 kW |
| Max. input voltage | 1100 V | |
| Rated voltage | 360 V | |
| Start-up voltage | 180 V | |
| MPPT voltage range | 180 - 1000 V | |
| Max. input current | 40 A / 40 A / 40 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 |
| Max. apparent output power | 15 kVA | 20 kVA |
| Max. output power | 15 kW | 20 kW |
| Rated grid voltage | 3/PE, 220 V / 230 V | |
| Rated grid frequency | 50 Hz / 60 Hz | |
| Rated grid output current | 39.4 A / 37.7 A | 52.5 A / 50.2 A |
| Max. output current | 39.4 A / 37.7 A | 52.5 A / 50.2 A |
| Power factor | > 0.99 (0.8 leading - 0.8 lagging) | |
| THDi | < 3% | |
| Efficiency | | |
| Max. efficiency | 97.8% | |
| EU efficiency | 97.3% | |
| 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 | |
| Multi peak scan | Yes | |
| Integrated AFCI 2.0 | Optional | |
| Integrated DC switch | Yes | |
| General Data | | |
| Dimensions (W × H × D) | 355 × 625 × 250 mm | |
| Weight | 25.5 kg | 26.5 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) | ≤ 60 dB(A) | |
| Cooling concept | Intelligent 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 | LED digital display & Bluetooth + APP | |
| Communication | RS485, Optional: Wi-Fi, GPRS | |