

S5-GC80K

Solis Three Phase Grid-Tied Inverters

Efficient

- 9 MPPTs, max. efficiency 98.7%
- > 150% DC/AC ratio
- 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

- IP66
- Built-in PID recovery for better module performance (optional)
- AFCI protection, proactively reduces fire risk
- Globally recognised branded componentry for longer life

Economic

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

Models:

S5-GC80K



360° View



DATASHEET

S5-GC80K

| Models | 80K |
|---|---|
| Input DC | |
| Max. input voltage | 1100 V |
| Rated voltage | 600 V |
| Start-up voltage | 195 V |
| MPPT voltage range | 180 - 1000 V |
| Max. input current | 9 × 32 A |
| Max. short circuit current | 9 × 40 A |
| MPPT number / Max. input strings number | 9 / 18 |
| Output AC | |
| Rated output power | 80 kW |
| Max. apparent output power | 88 kVA |
| Max. output power | 88 kW |
| 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 | 121.6 A / 115.5 A |
| Max. output current | 133.7 A |
| Power factor | > 0.99 (0.8 leading - 0.8 lagging) |
| THDi | < 3% |
| Efficiency | |
| Max. efficiency | 98.7% |
| EU efficiency | 98.3% |
| 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 |
| Integrated AFCI 2.0 | Optional |
| Integrated PID recovery | Optional |
| Integrated DC switch | Yes |
| Integrated AC switch | Optional |
| General Data | |
| Dimensions (W × H × D) | 1050 × 567 × 314.5 mm (with AC switch) |
| Weight | 85 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 | G98 or G99, VDE-AR-N 4105/VDE-AR-N 4110/VDE V 0124, EN 50549-1, VDE 0126/UTE C 15/VFR:2019, CEI 0-21, C10/11, NRS 097-2-1, TOR, EIFS 2018.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530 |
| Safety / EMC standard | IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4 |
| Features | |
| DC connection | MC4 connector |
| AC connection | OT terminal (max. 185 mm ²) |
| Display | LCD |
| Communication | RS485, Optional: Wi-Fi, GPRS, PLC |