



40-60K

Grid-Tied Inverters

S6-GC3P(40-60)K-NV-ND

4/5 MPPT | 42A per MPPT

- 4/5 MPPT, max. efficiency 98.6%
- AFCI protection, proactively reduces fire risk
- String current up to 21A
- Intelligent string monitoring, smart I-V curve scan
- > 150% DC/AC ratio
- Dual independent RS485 ports, supporting communication with multiple devices
- Nighttime PID recovery function (optional)

PHILIPPINES

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DATASHEET

| Models | 40K04-NV | 50K04-NV | 60K05-NV |
|---|--|-----------------|-----------------|
| Input DC | | | |
| Max. input voltage | | 1100 V | |
| Rated voltage | | 600 V | |
| Start-up voltage | | 180 V | |
| MPPT voltage range | | 180 - 1000 V | |
| Max. input current | 4 × 42 A | | 5 × 42 A |
| Max. short circuit current | 4 × 52.5 A | | 5 × 52.5 A |
| MPPT number / Max. input strings number | 4 / 8 | | 5 / 10 |
| Output AC | | | |
| Rated output power | 40 kW | 50 kW | 60 kW |
| Max. apparent output power | 40 kVA | 50 kVA | 60 kVA |
| Max. output power | 40 kW | 50 kW | 60 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 | 60.8 A / 57.7 A | 76.0 A / 72.2 A | 91.2 A / 86.6 A |
| Max. output current | 60.8 A / 57.7 A | 76.0 A / 72.2 A | 91.2 A / 86.6 A |
| Power factor | > 0.99 (0.8 leading - 0.8 lagging) | | |
| THDi | < 3% | | |
| Efficiency | | | |
| Max. efficiency | 98.6% | | |
| EU efficiency | 98.1% | | |
| 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 PID recovery | Optional | | |
| Integrated DC switch | Yes | | |
| General Data | | | |
| Dimensions (W × H × D) | 508 × 612 × 288 mm | | |
| Weight | 34.9 kg | 35.8 kg | 38.6 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) | ≤ 55 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 indicator & Bluetooth + APP | | |
| Communication | RS485, Optional: Wi-Fi, GPRS | | |