



**15-20K**

Grid-Tied Inverters

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

3 MPPT | 42A per MPPT

- String current up to 21A
- Intelligent string monitoring, smart I-V curve scan
- > 150% DC/AC ratio
- 24-hour load consumption monitoring
- AFCI protection, proactively reduces fire risk
- Dual independent RS485 ports, supporting communication with multiple devices

### PHILIPPINES

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# DATASHEET

| Models                                  | 15K  | 20K             |
|---|--|-----------------|
| <b>Input DC</b>                         |  |                 |
| 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                      | 42 A / 42 A / 42 A   |                 |
| Max. short circuit current              | 52.5 A / 52.5 A / 52.5 A   |                 |
| MPPT number / Max. input strings number | 3 / 6  |                 |
| <b>Output AC</b>                        |  |                 |
| 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%   |                 |
| <b>Efficiency</b>                       |  |                 |
| Max. efficiency                         | 97.8%  |                 |
| EU efficiency                           | 97.3%  |                 |
| <b>Protection</b>                       |  |                 |
| DC reverse-polarity protection          | Yes  |                 |
| Short circuit protection                | Yes  |                 |
| Output over current protection          | Yes  |                 |
| Surge protection                        | Yes  |                 |
| 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  |                 |
| <b>General Data</b>                     |  |                 |
| 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)                | ≤ 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   |                 |
| <b>Features</b>                         |  |                 |
| DC connection                           | MC4 connector  |                 |
| AC connection                           | OT terminal  |                 |
| Display                                 | LED indicator & Bluetooth + APP  |                 |
| Communication                           | RS485, Optional: Wi-Fi, GPRS   |                 |