

# 350K

Grid-Tied Inverters

## S6-GU3P350K06-EV-ND

6 MPPT | 80A per MPPT



### Efficient

- 30 inputs, > 150% DC/AC ratio
- Each MPPT maximum current 80A, compatible with 182 and 210 series bifacial modules
- Patented heat transfer technology, continuous output increase of 5% at high temperature



### Safe

- IP66, C5-M Anti-Corrosion level
- Intelligent string break, remote release for DC switch, active safety
- Support intelligent AC/DC terminal temperature detection



### Smart

- Intelligent string monitoring, smart I-V curve scan
- Each MPPT online insulation fault detection facilitates rapid fault identification
- Low temperature antifreeze, reverse dust removal, indoor dehumidification



### Economic

- Inverter with 20ms fast reactive power response, can replace SVG
- Support 400mm<sup>2</sup> aluminum wire connection, saving AC cable cost
- Support PLC communication, saving communication cables and construction cost

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## DATASHEET

| Models                                  | 350K                                                         |
|-----------------------------------------|--------------------------------------------------------------|
| <b>Input DC</b>                         |                                                              |
| Max. input voltage                      | 1500 V                                                       |
| Rated voltage                           | 1080 V                                                       |
| Start-up voltage                        | 500 V                                                        |
| MPPT voltage range                      | 480 - 1500 V                                                 |
| Max. input current                      | 6 × 80 A                                                     |
| Max. short circuit current              | 6 × 125 A                                                    |
| MPPT number / Max. input strings number | 6 / 30                                                       |
| <b>Output AC</b>                        |                                                              |
| Rated output power                      | 350 kW                                                       |
| Max. apparent output power              | 350 kVA                                                      |
| Rated grid voltage                      | 3/PE, 800 V                                                  |
| Grid voltage range                      | 640 - 920 V                                                  |
| Rated grid frequency                    | 50 Hz / 60 Hz                                                |
| Max. output current                     | 252.6 A                                                      |
| Power factor                            | > 0.99 (0.8 leading - 0.8 lagging)                           |
| THDi                                    | < 3%                                                         |
| <b>Efficiency</b>                       |                                                              |
| Max. efficiency                         | 99.0%                                                        |
| EU efficiency                           | 98.7%                                                        |
| <b>Protection</b>                       |                                                              |
| 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                                                          |
| Night time SVG function                 | Yes                                                          |
| Integrated PID recovery                 | Yes                                                          |
| Integrated DC switch                    | Yes                                                          |
| <b>General Data</b>                     |                                                              |
| Dimensions (W × H × D)                  | 1098 × 813 × 378.5 mm                                        |
| Weight                                  | 117 kg                                                       |
| Topology                                | Transformerless                                              |
| Self-consumption (night)                | < 3 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                | EN50549, G99, AS4777.2, VDE0126, IEC61727, VDE4110, CEA 2019 |
| Safety / EMC standard                   | IEC62109-1/-2, EN61000-6-2/-4                                |
| <b>Features</b>                         |                                                              |
| DC connection                           | Matching connector                                           |
| AC connection                           | OT terminal (max. 400 mm <sup>2</sup> )                      |
| Display                                 | LED indicator & Bluetooth + APP                              |
| Communication                           | RS485, Optional: PLC                                         |