solis | 20th ANNIVERSARY

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$^2$ aluminum wire connection, saving AC cable cost
- Support PLC communication, saving communication cables and construction cost

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## DATASHEET S6-GU3P350K06-EV-ND

| Models | 350K06 |
|---|---|
| **Input DC** | |
| 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 |
| **Output AC** | |
| 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% |
| **Efficiency** | |
| Max. efficiency | 99.0% |
| EU efficiency | 98.7% |
| **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 |
| Night time SVG function | Yes |
| Integrated PID recovery | Yes |
| Integrated DC switch | Yes |
| **General Data** | |
| 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 |
| **Features** | |
| DC connection | Matching connector |
| AC connection | OT terminal (max. 400 $mm^2$) |
| Display | LED indicator & Bluetooth + APP |
| Communication | RS485, Optional: PLC |

Preliminary