

275-350K

Grid-Tied Inverters

S6-GU3P(275-350)K06-EV-ND

6 MPPT | 70A/80A per MPPT

Efficient

- 24/30 inputs, > 150% DC/AC ratio
- Each MPPT maximum current 70A/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
- Online grounding fault detection facilitates rapid fault identification
- Low temperature antifreeze, reverse dust removal, indoor dehumidification

Economic

- Inverter with 30ms 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

Models	275K	350K
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 × 70 A	6 × 80 A
Max. short circuit current	6 × 105 A	6 × 125 A
MPPT number / Max. input strings number	6 / 24	6 / 30
Output AC		
Rated output power	275 kW	350 kW
Max. apparent output power	275 kVA	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	198.5 A	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	119 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, VDE0126, IEC61727, VDE4110, CEA 2019	
Safety / EMC standard	IEC62109-1/-2, IEC61000-6-2/-4	
Features		
DC connection	Matching connector	
AC connection	OT terminal (max. 400 mm^2)	
Display	LED indicator & Bluetooth + APP	
Communication	RS485, Optional: PLC	