

250K

Grid-Tied Inverters

S6-GU250K-EHV-US-M12

12 MPPT | 40A per MPPT

Efficient

- 12 MPPTs, max. efficiency 99.0%
- > 1.5 DC/AC ratio
- Lower starting voltage, longer power generation time
- Wide MPPT current design, compatible with 182 and 210 series bifacial modules

Safe

- Type 4X, C5 Anti-Corrosion Level
- Anti-PID and PID recovery function
- Fuse free design, safe and maintenance free

Smart

- Night SVG function
- Intelligent string monitoring. Smart I-V curve scan
- Remote firmware upgrade with simple operation

Economic

- Power line communication (PLC) (optional)
- Integrated tracking bracket power supply interface

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DATASHEET

Models	250K
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	12 × 40 A
Max. short circuit current	12 × 70 A
MPPT number / Max. inputs / Max. number of strings	12 / 12 / 24
Output AC	
Rated output power	250 kW
Max. apparent output power	250 kVA
Max. output power	250 kW
Rated grid voltage	3Φ/PE, 600 V
Rated grid frequency	60 Hz
Max. output current	240.6 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)
THDi	< 3%
Efficiency	
Max. efficiency	99.0%
CEC efficiency	98.5%
Protection	
Surge protection	DC Type II / AC Type II
DC reverse-polarity protection	Yes
Anti-islanding protection	Yes
Strings monitoring	Yes
I/V Curve scanning	Yes
Integrated AFCI	Yes
Integrated PID recovery	Yes
General Data	
Dimensions (W × H × D)	48.2 × 37.6 × 18.4 in (1223.5 × 954.5 × 467 mm)
Weight	297 lbs (135 kgs)
Topology	Transformerless
Self-consumption (night)	< 3 W
Operating ambient temperature range	-22°F to 140°F (-30°C to 60°C)
Storage environment	-40°F to 176°F (-40°C to 80°C)
Ingress protection	TYPE 4X
Cooling concept	Intelligent fan-cooling
Max. operation altitude	13,120 ft (4000 m)
Compliance	UL 1741SB, UL 1998, UL1699B, IEEE 1547-2018, FCC Part 15 (Class A & B), CAN/CSA C22.2 107.1-1, California Rule 21
Features	
DC connection	MC4 connector
AC connection	OT terminal (1000 MCM)
Display	LED indicator & Bluetooth + APP
Communication	RS485, Optional: PLC