

Solis-125K1-EHV-5G

Solis Three Phase US Inverters



Model:

600V: Solis-125K1-EHV-5G

Efficient

- ▶ Max. efficiency 99.1% (CEC efficiency 98.6%)
- ▶ Adapt to various combiner boxes, support high DC/AC ratio
- ▶ Adapt to various PV modules, also support 182mm, 210mm large PV module

Smart

- ▶ Support the monitoring of combiner box and inverter, realize string level monitoring
- ▶ Remote firmware upgrade with simple operation*

Safe

- ▶ Built-in PID recovery for better module performance (optional)
- ▶ NEMA 4X protection
- ▶ Type II SPD for both DC and AC
- ▶ Intelligent redundant fan-cooling

Economic

- ▶ Max. DC input voltage: 1500V
- ▶ Supports aluminium wire to reduce cost
- ▶ Easy installation, suitable for PV station upgrade

Datasheet

Model Name	Solis-125K1-EHV-5G
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Input DC

Max. input voltage	1500 V
Rated voltage	950 V
Start-up voltage	900 V
MPPT voltage range	860-1450 V
Max. input current	150 A
Max. short circuit current	300 A
MPPT number/Max. input strings number	1/1

Output AC

Rated output power	125 kW
Max. apparent output power	125 kVA
Max. output power	125 kW
Rated grid voltage	3Φ/PE, 600 V
Rated grid frequency	60 Hz
Max. output current	120 A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)
THDi	<3%

Efficiency

Max. efficiency	99.1%
CEC efficiency	98.6%

Protection

DC reverse-polarity protection	Yes
Ground fault monitoring	Yes
Surge protection	DC Type II / AC Type II
Anti-islanding protection	Yes
Strings monitoring	Yes
Integrated PID recovery	Yes
Integrated DC switch	Yes
Integrated AC switch	Yes

General Data

Dimensions (W*H*D)	37.1*28.9*12.2 in (942*733*311mm)
Weight	170 lbs (77 kg)
Topology	Transformerless
Self consumption (night)	<3 W (without anti-PID)
Operating ambient temperature range	-13°F to 140°F (-25°C to 60°C)
Storage environment	-13°F to 176°F (-25°C to 80°C)
Relative humidity	0-100%
Ingress protection	NEMA4X
Cooling concept	Intelligent redundant fan-cooling
Max. operation altitude	13,120 ft (4000 m)
Compliance	UL 1741, UL 1741SA, Rule 21, UL 1998, IEEE 1547, FCC Part 15 (Class A & B), CAN/CSA C22.2 107.1-1, California Rule 21 phase II&III

Features

DC connection	OT terminal (max. 350 MCM)
AC connection	OT terminal (max. 350 MCM)
Display	LCD
Communication	RS485, Ethernet, Optional: PLC