

Solis-(125-255)K-EHV-5G-US

Solis Three Phase US Inverters



Model:

600V: Solis-125K-EHV-5G-US-PLUS Solis-185K-EHV-5G-US Solis-185K-EHV-5G-US-PLUS

800V: Solis-255K-EHV-5G-US Solis-255K-EHV-5G-US-PLUS

Efficient

- ▶ 9/12/14 MPPTs, max. efficiency 99.0% (CEC efficiency 98.3%)
- ▶ > 150% DC/AC ratio
- ▶ High power tracking density 60MPPT/MW
- ▶ Compatible with 500W+ bifacial modules

Smart

- ▶ Intelligent string monitoring, smart I-V curve scan
- ▶ Remote firmware upgrade with simple operation

Safe

- ▶ IP66
- ▶ CA Rule 21 compliant and UL 1741 SA Certified
- ▶ Built-in PID recovery for better module performance
- ▶ Fuse free design, safe and maintenance free
- ▶ AFCI protection, proactively reduces fire risk
- ▶ Globally recognised branded componentry for longer life

Economic

- ▶ Power line communication (PLC) (optional)
- ▶ DC side supports "Y" connector
- ▶ Support aluminium wire to reduce cost
- ▶ Reserve DC energy storage access

Datasheet

Model Name	Solis-125K-EHV-5G-US-PLUS	Solis-185K-EHV-5G-US	Solis-185K-EHV-5G-US-PLUS	Solis-255K-EHV-5G-US	Solis-255K-EHV-5G-US-PLUS
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Input DC

Max. input voltage	1500 V				
Rated voltage	950 V		1080 V		
Start-up voltage	500 V				
MPPT voltage range	480-1500 V				
Max. input current	9*30 A	14*26 A	12*30 A	14*26 A	12*30 A
Max. short circuit current	9*50 A	14*40 A	12*50 A	14*40 A	12*50 A
MPPT number/Max. input strings number	9/18	14/28	12/24	14/28	12/24

Output AC

Rated output power	125 kW	185 kW	185 kW	255 kW
Max. apparent output power	137.5 kVA	185 kVA	185 kVA	255 kVA
Max. output power	137.5 kW	185 kW	185 kW	255 kW
Rated grid voltage	3Φ/PE, 600 V			3Φ/PE, 800 V
Rated grid frequency	60 Hz			
Max. output current	132.3 A	178.0 A	178.0 A	184.0 A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)			
THDi	<3%			

Efficiency

Max. efficiency	99.0%
CEC efficiency	98.3%

Protection

DC reverse-polarity protection	Yes
Ground fault monitoring	Yes
Anti-islanding protection	Yes
Strings monitoring	Yes
Integrated AFCI (DC arc-fault circuit protection)	Yes
I/V Curve scanning	Yes
Integrated PID recovery	Yes

General Data

Dimensions (W*H*D)	46.1*30.3*15.1 in (1170*770*384 mm)	
Weight	240 lbs (109 kg)	249.0 lbs (113 kgs)
Topology	Transformerless	
Self consumption (night)	<2 W	
Relative humidity	0-100%	
Ambient operating temperature range	-13°F to 140°F (-25°C ~ +60°C)	
Storage environment	-40°F to 176°F (-40°C to 80°C)	
Ingress protection	TYPE 4X	
Cooling concept	Intelligent redundant fan-cooling	
Max. operation altitude	13,120 ft (4000 m)	
Compliance	UL 1741, UL 1741SA, UL 1998, UL1699B, IEEE 1547, FCC Part 15 (Class A & B), CAN/CSA C22.2 107.1-1, California Rule 21 Phaes II & III	

Features

DC connection	MC4 connector
AC connection	OT terminal (max. 300 mm ²)
Display	LCD
Communication	RS485, Optional: PLC