

Solis-(185-255)K-EHV-5G-US

Solis Three Phase US Inverters



Model:

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

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

Efficient

- ▶ 12/14 MPPTs, max. efficiency 99.0% (CEC efficiency 98.5%)
- ▶ 150% DC/AC ratio
- ▶ High power tracking density 60MPPT/MW
- ▶ Compatible with 500W+ bifacial modules

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
- ▶ Globally recognised branded component for longer life

Smart

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

Economic

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

Datasheet

Model Name	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	14*26 A	12*30 A	14*26 A	12*30 A
Max. short circuit current	14*40 A	12*50 A	14*40 A	12*50 A
MPPT number/Max. input strings number	14/28	12/24	14/28	12/24

Output AC

Rated output power	185 kW		255 kW	
Max. apparent output power	185 kVA		255 kVA	
Max. output power	185 kW		255 kW	
Rated grid voltage	3Φ/PE, 600 V		3Φ/PE, 800 V	
Rated grid frequency	60 Hz			
Max. output current	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	98.5%			

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	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			