

# 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%)
- ▶ 200% 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	600 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	185 kW	255 kW	255 kW
Max. apparent output power	185 kVA	185 kVA	255 kVA	255 kVA
Max. output power	185 kW	185 kW	255 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
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, 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 <sup>2</sup> )
Display	LCD
Communication	RS485, Optional: PLC