

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

Solis Three Phase Grid-Tied Inverters

Efficient

- 9/12 MPPTs, max. efficiency 99.0% (CEC efficiency 98.3%)
- > 1.5 DC/AC ratio
- High power tracking density 72MPPT/MW
- Compatible with 550W+ bifacial modules

Smart

- Intelligent string monitoring, smart I-V curve scan
- Remote firmware upgrade with simple operation⁽¹⁾

Safe

- Type 4X, C5 Anti-Corrosion Level
- External signal control function
- Nighttime PID recovery function
- Fuse free design, safe and maintenance free
- AFCI protection, proactively reduces fire risk
- High quality components from globally recognized suppliers

Economic

- Power line communication (PLC) (optional)
- DC side supports "Y" connector
- Reserve DC energy storage access

Models:

Solis-125K-EHV-5G-US-PLUS

Solis-185K-EHV-5G-US-PLUS

Solis-255K-EHV-5G-US-PLUS



(1) Requires the user to use Solis monitoring

DATASHEET

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

Models	125K	185K	255K
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	12 × 30 A	
Max. short circuit current	9 × 50 A	12 × 50 A	
MPPT number / Max. input strings number	9 / 18	12 / 24	
Output AC			
Rated output power	125 kW	185 kW	255 kW
Max. apparent output power	137.5 kVA	185 kVA	255 kVA
Max. output power	137.5 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	184.0 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)		
THDi	< 3%		
Efficiency			
Max. efficiency	98.6%	98.7%	99.0%
CEC efficiency	98.3%		
Protection			
DC reverse-polarity protection	Yes		
Surge protection	DC Type II / AC Type II		
Ground fault monitoring	Yes		
Anti-islanding protection	Yes		
Strings monitoring	Yes		
Integrated AFCI	Yes		
Integrated PID recovery	Yes		
I/V Curve scanning	Yes		
General Data			
Dimensions (W × H × D)	46.1 × 30.3 × 15.1 in (1170 × 770 × 384 mm)		
Weight	240 lbs (109 kgs)	249.0 lbs (113 kgs)	
Topology	Transformerless		
Self-consumption (night)	< 2 W		
Relative humidity	0 - 100%		
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 (750 MCM)		
Display	LCD		
Communication	RS485, Optional: PLC		