

125-185K

Grid-Tied Inverters

Solis-(125-185)K-EHV-5G-US-PLUS

9/12 MPPT | 30A per MPPT

Efficient

- 9/12 MPPTs, max. efficiency 98.7% (CEC efficiency 98.3%)
- > 1.5 DC/AC ratio
- High power tracking density 72MPPT/MW
- Compatible with 600W+ bifacial modules

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

Smart

- Intelligent string monitoring, smart I-V curve scan
- Remote firmware upgrade with simple operation①

Economic

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

① Requires the user to use Solis monitoring.

USA

t: +1 866 438 8408
w: solisinverters.com/us

e: ussales@solisinverters.com
usservice@solisinverters.com

DATASHEET

Models	125K	185K
Input DC		
Max. input voltage	1500 V	
Rated voltage	950 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
Max. apparent output power	137.5 kVA	185 kVA
Max. output power	137.5 kW	185 kW
Rated grid voltage	3Φ/PE, 600 V	
Rated grid frequency	60 Hz	
Max. output current	132.3 A	178.0 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)	
THDi	< 3%	
Efficiency		
Max. efficiency	98.6%	98.7%
CEC efficiency	98.3%	
Protection		
Surge protection	DC Type II / AC Type II	
DC reverse-polarity protection	Yes	
Ground fault monitoring	Yes	
Anti-islanding protection	Yes	
Integrated AFCI	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	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	