

Solis-(215-255)K-EHV-5G

Solis Three Phase Inverters



Model:

800V: Solis-215K-EHV-5G-PLUS Solis-250K-EHV-5G Solis-250K-EHV-5G-PLUS
Solis-255K-EHV-5G Solis-255K-EHV-5G-PLUS



360 degree



Efficient

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



Safe

- ▶ IP66
- ▶ Built-in PID recovery for better module performance
- ▶ Fuse free design, safe and maintenance free
- ▶ Globally recognised branded component for longer life



Smart

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



Economic

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

Datasheet

Model Name	Solis-215K-EHV-5G-PLUS	Solis-250K-EHV-5G	Solis-250K-EHV-5G-PLUS	Solis-255K-EHV-5G	Solis-255K-EHV-5G-PLUS
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Input DC

Max. input voltage	1500 V				
Rated voltage	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

Output power	215 kVA	250 kVA	255 kVA		
Rated grid voltage	3/PE, 800 V				
Grid voltage range	640-920 V				
Rated grid frequency	50 Hz / 60 Hz				
Max. output current	155.2 A	180.4 A	184.0 A		
Power Factor	>0.99 (0.8 leading - 0.8 lagging)				
THDi	<3%				
DC injection current	<0.5% In				

Efficiency

Max. efficiency	99.0%				
EU efficiency	98.8%	98.7%	98.8%	98.7%	98.8%

Protection

DC reverse-polarity protection	Yes				
Short circuit protection	Yes				
Output over current protection	Yes				
Surge protection	DC Type II / AC Type II				
Grid monitoring	Yes				
Anti-islanding protection	Yes				
Temperature protection	Yes				
Strings monitoring	Yes				
I/V Curve scanning	Yes				
Night time SVG function	Yes				
Integrated PID recovery	Yes				
Integrated DC switch	Yes				

General Data

Dimensions (W*H*D)	1125*770*384 mm				
Weight	113 kg				
Topology	Transformerless				
Self consumption (night)	<2 W				
Operating ambient temperature range	-25 ~ +60°C				
Relative humidity	0-100%				
Ingress protection	IP66				
Noise emission (typical)	≤65 dB(A)				
Cooling concept	Intelligent redundant fan-cooling				
Max. operation altitude	4000 m				
Grid connection standard	EN50549, G99, AS4777.2, VDE0126, IEC61727, VDE4110, CEA 2019				
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4				

Features

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