

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

Solis Three Phase Inverters



Model:

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



360 degree



Efficient

- ▶ 9/12/14 MPPTs, max. efficiency 99%
- ▶ 200% 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 two sinks and one access
- ▶ Supports aluminium wire access to reduce cost
- ▶ Reserve DC energy storage access

Datasheet

Model Name	Solis-215K-EHV-5G-PLUS	Solis-255K-EHV-5G	Solis-255K-EHV-5G-PLUS
Input DC			
Max. input voltage	1500 V		
Rated voltage	1080 V		
Start-up voltage	600 V		
MPPT voltage range	580-1500 V		
Max. input current	9*30 A	14*26 A	12*30 A
Max. short circuit current	9*50 A	14*40 A	12*50 A
MPPT number/Max. input strings number	9/18	14/28	12/24
Output AC			
Rated output power	215 kVA @ 30°C / 205 kVA @ 40°C / 195 kVA @ 50°C	255 kVA @ 30°C / 235 kVA @ 40°C / 220 kVA @ 50°C	255 kVA @ 30°C / 235 kVA @ 40°C / 220 kVA @ 50°C
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	184.0 A	184.0 A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)		
THDi	<3%		
Efficiency			
Max. efficiency	99.0%		
EU efficiency	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		
Anti-PID function	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		
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		