



Solis-255K-EHV-5G

Solis Three Phase Inverters



Features:

- ▶ 99% Max. efficiency
- ▶ Maximum 28-string input, support "Y" type connection in DC side
- ▶ Maximum string input current 13A, support bifacial modules access
- ▶ Supports anti-PID function to improve system efficiency
- ▶ IP66 protection level, intelligent redundant air cooling design
- ▶ PLC/RS-485 multiple communication modes, flexible monitoring
- ▶ High-precision intelligent strings monitoring reduces fault location time



Model:

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

Datasheet

Model Name	Solis-255K-EHV-5G
Input DC	
Max. input voltage	1500V
Rated voltage	1080V
Start-up voltage	620V
MPPT voltage range	600-1500V
Max. input current	14*26A
Max. short circuit current	14*40A
MPPT number/Max. input strings number	14/28
Output AC	
Rated output power	255kVA@30°C / 235kVA@40°C / 220kVA@50°C
Rated grid voltage	3/PE, 800V
Grid voltage range	640-920V
Rated grid frequency	50/60Hz
Max. output current	184.0A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)
THDi	<3%
Efficiency	
Max. efficiency	99.0%
EU efficiency	98.5%
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
Anti-PID function	Optional
Integrated DC switch	Yes
General Data	
Dimensions (W*H*D)	1125*720*382 mm
Weight	117kg
Topology	Transformerless
Self consumption	<2W (night)
Operating ambient temperature range	-25 ~ +60°C
Relative humidity	0-100%
Ingress protection	IP66
Cooling concept	Intelligent redundant fan-cooling
Max. operation altitude	4000m
Grid connection standard	EN50549, G99, AS4777.2, VDE0126-1-1, IEC61727, VDE4105
Safety/EMC standard	IEC62109-1/-2, EN61000-6-2/-3
Features	
DC connection	MC4 connector
AC connection	OT Terminal (max. 300 mm ²)
Display	LCD, 2×20 Z
Communication	RS485, Optional: PLC