

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

Solis Three Phase Grid-Tied Inverters

250K models are applicable only in Vietnam, Poland, Brazil and India

Certified by TÜV Rheinland with VDE-AR-N4130, supporting grid connections at Extra High Voltages $\geq 150\text{kV}$ for enhanced grid adaptability.

Efficient

- 9/12/14 MPPTs, max. efficiency 99.0%
- > 150% DC/AC ratio
- High power tracking density 56MPPT/MW
- Compatible with 550W+ bifacial modules

Smart

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

Safe

- IP66
- Nighttime PID recovery function
- Fuse free design, safe and maintenance free
- Globally recognised branded component for longer life

Economic

- Power line communication (PLC) (optional)
- DC side supports "Y" connector

Models:

Solis-215K-EHV-5G-PLUS

Solis-250K-EHV-5G

Solis-250K-EHV-5G-PLUS

Solis-255K-EHV-5G

Solis-255K-EHV-5G-PLUS



DATASHEET

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

Models	215K-PLUS	250K	250K-PLUS	255K	255K-PLUS
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@30°C / 205 kVA@40°C / 195 kVA@50°C	250 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	180.4 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%	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	109 kg	113 kg			
Topology	Transformerless				
Self-consumption (night)	< 2 W				
Operating ambient temperature range	-30 ~ +60°C				
Relative humidity	0 - 100%				
Ingress protection	IP66				
Cooling concept	Intelligent 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				