

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

### Solis Three Phase Grid-Tied Inverters

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 500W+ bifacial modules

#### Smart

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

#### Safe

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



360° View

## DATASHEET

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

Models	215K-PLUS	250K	250K-PLUS	255K	255K-PLUS
<b>Input DC</b>					
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
<b>Output AC</b>					
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				
<b>Efficiency</b>					
Max. efficiency	99.0%				
EU efficiency	98.8%	98.7%	98.8%	98.7%	98.8%
<b>Protection</b>					
DC reverse-polarity protection	Yes				
Short circuit protection	Yes				
Output over current protection	Yes				
Insulation resistance monitoring	Yes				
Residual current detection	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				
<b>General Data</b>					
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				
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				
<b>Features</b>					
DC connection	MC4 connector				
AC connection	OT terminal (max. 300 mm <sup>2</sup> )				
Display	LCD				
Communication	RS485, Optional: PLC				