

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 55MPPT/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-255K-EHV-5G

Solis-255K-EHV-5G-PLUS



360° View

DATASHEET

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

| Models | 215K-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 |
| 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 | | | |
| 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 | |
| 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 | |
| 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 | | |
| 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 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 | | |