

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

# Solis Three Phase Grid-Tied Inverters

### Efficient

- 9/12/14 MPPTs, max. efficiency 99.0%
- > 150% DC/AC ratio
- High power tracking density 55MPPT/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
- 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 |
|---------------------------------------|--|--|-----------|
| <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   |
| 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     |
| <b>Output AC</b>                      |  |  |           |
| 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  |  |           |
| Max. output current                   | 155.2 A  | 184.0 A                                    |           |
| Power factor                          | >0.99 (0.8 leading - 0.8 lagging)                            |  |           |
| THDi                                  | <3%  |  |           |
| <b>Efficiency</b>                     |  |  |           |
| Max. efficiency                       | 99.0%  |  |           |
| EU efficiency                         | 98.8%  | 98.7%                                      | 98.8%     |
| <b>Protection</b>                     |  |  |           |
| 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  |  |           |
| <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   |  |           |
| 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   |  |           |