

# Solis-125K-EHV-5G

Solis 5G Three Phase Inverters



## Features:

- ▶ Over 99.1% Max. efficiency
- ▶ Strings intelligent monitoring, Smart I-V Curve Diagnosis supported
- ▶ Anti-resonance, single transformer can connect 6M+ in parallel
- ▶ 1.5 times DC overload ratio, maximum 20 strings input
- ▶ Type II surge arrester for both DC and AC, type I surge arrester optional
- ▶ DC input reverse alarm
- ▶ Optional anti-PID function integrated
- ▶ Leakage current repression technology
- ▶ Integrated AC & DC disconnect switches
- ▶ Ethernet /RS485 multiple communication modes, flexible monitoring



## Model:

Solis-125K-EHV-5G

## Datasheet

| Model Name                            | Solis-125K-EHV-5G                                  |
|---------------------------------------|----------------------------------------------------|
| <b>Input DC</b>                       |                                                    |
| Max. input power                      | 187.5kW                                            |
| Max. input voltage                    | 1500V                                              |
| Rated voltage                         | 950V                                               |
| Start-up voltage                      | 900V                                               |
| MPPT voltage range                    | 860-1450V                                          |
| Max. input current                    | 150A                                               |
| Max. Short Circuit current            | 300A                                               |
| MPPT number/Max. input strings number | 1/20                                               |
| <b>Output AC</b>                      |                                                    |
| Rated output power                    | 125kW                                              |
| Max. apparent output power            | 125kVA                                             |
| Max. output power                     | 125kW                                              |
| Rated grid voltage                    | 3/PE, 600V                                         |
| Rated grid frequency                  | 50/60Hz                                            |
| Rated grid output current             | 120A                                               |
| Max. output current                   | 120A                                               |
| Power Factor                          | >0.99 (Adjustable from 0.8 leading to 0.8 lagging) |
| THDi                                  | <3%                                                |
| <b>Efficiency</b>                     |                                                    |
| Max. efficiency                       | 99.1%                                              |
| CEC efficiency                        | 98.6%                                              |
| <b>Protection</b>                     |                                                    |
| DC reverse-polarity protection        | Yes                                                |
| Short circuit protection              | Yes                                                |
| Output over current protection        | Yes                                                |
| Surge protection (DC/AC)              | Type II / Type II                                  |
| Grid monitoring                       | Yes                                                |
| Islanding protection                  | Yes                                                |
| Temperature protection                | Yes                                                |
| DC switch/AC switch                   | Yes/Yes                                            |
| DC Fuse                               | Yes                                                |
| I/V Curve scanning                    | Yes                                                |
| Strings monitoring                    | Yes                                                |
| Anti-PID function                     | Optional                                           |
| <b>General Data</b>                   |                                                    |
| Dimensions (W*H*D)                    | 1178mm*713.5mm*315mm                               |
| Weight                                | 84kg                                               |
| Topology                              | Transformerless                                    |
| Self consumption (night)              | <3W (without anti-PID)                             |
| Operating ambient temperature range   | - 25~60°C                                          |
| Relative humidity                     | 0~100%                                             |
| Ingress protection                    | NEMA4X/IP65                                        |
| Cooling concept                       | Intelligent redundant fan-cooling                  |
| Max. operation altitude               | 4000m                                              |
| Grid connection standard              | G98, G99, EN 50549-1/-2, IEC61727                  |
| Safety/EMC standard                   | IEC 62109-1/-2, IEC62116, EN 61000-6-2/-4          |
| <b>Features</b>                       |                                                    |
| DC connection                         | MC4                                                |
| AC connection                         | OT Terminal connectors (Max. 185mm <sup>2</sup> )  |
| Display                               | LCD, 2×20 Z.                                       |
| Communication                         | RS485; Ethernet/PLC/WiFi/GPRS (optional)           |