

## S6-EH3P30K-H-LV

# Solis Three Phase Low Voltage Energy Storage Inverters

### Features:

- 2 seconds of 160% overload capability
- Supports a maximum input current of 20 A, making it ideal for all high-power PV modules from any brand
- Battery real-time monitoring , remote upgrade, and battery healing function to prolong battery life
- Supports Peakshaving features in "self-use" and "generator" modes
- Supports Unbalanced and Half-Wave Loads on both the Grid and Backup Port
- A wide battery voltage range accommodates the prevalent high-voltage lithium batteries found in the market
- Battery charging/discharging current 140A/70A+70A, suitable for 280Ah cell standard 0.5C application condition
- Support 200% DC/AC ratio, make full use of PV charging, provide long backup hours

### Models:

S6-EH3P30K-H-LV



# DATASHEET

# S6-EH3P30K-H-LV

| Models  | 30K-LV  |
|---|---|
| <b>Input DC (PV side)</b>                         |   |
| Recommended max. PV array size                    | 60 kW   |
| Max. usable PV input power                        | 60 kW   |
| Max. input voltage                                | 1000 V  |
| Rated voltage                                     | 600 V   |
| Start-up voltage                                  | 180 V   |
| MPPT voltage range                                | 150-850 V   |
| Max. input current                                | 3*40 A  |
| Max. short circuit current                        | 3*60 A  |
| MPPT number/Max. input strings number             | 3/6   |
| <b>Battery</b>                                    |   |
| Battery type                                      | Li-ion  |
| Battery voltage range                             | 150-800 V   |
| Max. charge / discharge power                     | 33 kW   |
| Max. charge / discharge current                   | 70 A*2 <sup>(1)</sup>   |
| No. of battery inputs                             | 2   |
| Max. charge / discharge power of each input       | 33 kW   |
| Communication                                     | CAN/RS485   |
| <b>Output AC (Grid side)</b>                      |   |
| Rated output power                                | 30 kW   |
| Max. apparent output power                        | 30 kVA  |
| Rated grid voltage                                | 3/N/PE, 127 V / 220 V; 3/N/PE, 133 V / 230 V  |
| Rated grid frequency                              | 50 Hz / 60 Hz   |
| Rated grid output current                         | 78.7 A / 75.3 A   |
| Max. output current                               | 78.7 A / 75.3 A   |
| Power factor                                      | >0.99 (0.8 leading - 0.8 lagging)   |
| THDi  | < 3%  |
| <b>Input AC (Grid side)</b>                       |   |
| Max. AC passthrough current                       | 152 A / 152 A   |
| Rated input voltage                               | 3/N/PE, 127 V / 220 V; 3/N/PE, 133 V / 230 V  |
| Rated input frequency                             | 50 Hz / 60 Hz   |
| <b>Input Generator</b>                            |   |
| Max. input power                                  | 30 kW   |
| Rated input current                               | 78.7 A / 75.3 A   |
| Rated input voltage                               | 3/N/PE, 127 V / 220 V; 3/N/PE, 133 V / 230 V  |
| Rated input frequency                             | 50 Hz / 60 Hz   |
| <b>Output AC (Back-up)</b>                        |   |
| Rated output power                                | 30 kW   |
| Max. apparent output power                        | 1.6 times of rated power, 2 s   |
| Back-up switch time                               | < 10 ms   |
| Rated output voltage                              | 3/N/PE, 127 V / 220 V; 3/N/PE, 133 V / 230 V  |
| Rated frequency                                   | 50 Hz / 60 Hz   |
| Rated output current                              | 78.7 A / 75.3 A   |
| THDv (@linear load)                               | < 2%  |
| <b>Efficiency</b>                                 |   |
| Max. efficiency                                   | 97.8%   |
| EU efficiency                                     | 97.4%   |
| BAT charged by PV Max. efficiency                 | 98.5%   |
| BAT charged/discharged to AC Max. efficiency      | 97.5%   |
| <b>Protection</b>                                 |   |
| Anti-islanding protection                         | Yes   |
| Output over current protection                    | Yes   |
| Short circuit protection                          | Yes   |
| Integrated DC switch                              | Yes   |
| DC reverse-polarity protection                    | Yes   |
| Surge protection                                  | DC Type II / AC Type II   |
| Integrated AFCI (DC arc-fault circuit protection) | Yes <sup>(2)</sup>  |
| <b>General Data</b>                               |   |
| Dimensions (W*H*D)                                | 530*880*290 mm  |
| Weight  | 73 kg   |
| Topology  | Transformerless   |
| Self-consumption (night)                          | <35 W   |
| Operating ambient temperature range               | -25 ~ +60°C   |
| Relative humidity                                 | 0-95%   |
| Ingress protection                                | IP66  |
| Cooling concept                                   | Intelligent redundant fan-cooling   |
| Max. operation altitude                           | 4000 m  |
| Grid connection standard                          | G99, VDE-AR-N 4105 / VDE V 0124, EN 50549-1/EN 50549-10, VDE 0126 / UTE C 15/VFR:2019, NTS 631/RD 1699/RD 244 / UNE 206006 / UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, TOR, EIFS 2018.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, MEA, PEA, PORTARIA N° 140, DE 21 DE MARÇO DE 2022 |
| Safety/EMC standard                               | IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4, EN 55011  |
| <b>Features</b>                                   |   |
| PV connection                                     | MC4 Quick connection plug   |
| Battery connection                                | Terminal connector  |
| AC connection                                     | Terminal Block  |
| Display   | LCD + Bluetooth + APP   |
| Communication                                     | CAN, RS485, Ethernet, Optional: Wi-Fi, Cellular, LAN  |

(1) Supporting parallel 140A input. (2) Activation required.