

## S6-E01P(4-5)K-48-EU

# Solis Single Phase Low Voltage Off-Grid Inverters

Applicable only to Europe

### Features:

- Generator-compatible to extend backup duration during grid power outage
- Multiple inverters can operate together to form a microgrid
- Supports dual backup ports for intelligent control of critical and non-critical loads
- Supports six different battery charging and discharging TOU (Time of Use) settings to lower your electricity bill
- 10 seconds of 200% overload capability
- Supports general setting options for lithium batteries, suitable for non-communicating batteries

### Models:

S6-E01P4K-48-EU

S6-E01P5K-48-EU



## DATASHEET

## S6-E01P(4-5)K-48-EU

| Models   | 4K  | 5K           |
|--|---|--------------|
| <b>Solar Charger</b>                             |   |              |
| Max. usable PV input power                       | 5.5 kW  | 6.5 kW       |
| Max. input voltage                               | 500 V   |              |
| Start-up voltage                                 | 90 V  |              |
| MPPT voltage range                               | 90-430 V  |              |
| Max. input current                               | 16 A / 16 A                                       |              |
| Max. short circuit current                       | 40 A  |              |
| Max. solar charge current                        | 100 A   |              |
| MPPT number/Max. input strings number            | 1/2   |              |
| <b>Battery</b>                                   |   |              |
| Battery type                                     | Li-ion / Lead-acid                                |              |
| Rated battery voltage                            | 40-60 V   |              |
| Max. charge / discharge power                    | 5 kW / 5 kW                                       |              |
| Max. charge / discharge current                  | 100 A   |              |
| Communication                                    | CAN   |              |
| <b>Inverter Output</b>                           |   |              |
| Rated output power                               | 4 kVA / 4 kW                                      | 5 kVA / 5 kW |
| Operation phase                                  | L/N/PE  |              |
| Rated grid voltage                               | 230 V ± 1%  |              |
| Rated grid frequency                             | 50 Hz / 60 Hz ± 0.1%                              |              |
| Surge capacity                                   | 8 kVA   | 10 kVA       |
| Max. output current                              | 20 A  | 25 A         |
| Output voltage waveform                          | Pure sine wave                                    |              |
| Transfer time                                    | 10 ms typical, 20 ms Max                          |              |
| THDv (@linear load)                              | <3%   |              |
| Peak efficiency (PV-AC)                          | 96.6%   |              |
| <b>AC Charger (grid port and generator port)</b> |   |              |
| Max. input power                                 | 6 kW  | 7 kW         |
| Rated input voltage                              | L/N/PE, AC 230 V                                  |              |
| Selectable voltage range                         | 90-280 V  |              |
| AC frequency range                               | 50 Hz / 60 Hz                                     |              |
| Max. input current                               | 26 A  | 30 A         |
| Max. AC charge current                           | 60 A  | 80 A         |
| <b>Protection</b>                                |   |              |
| Output over voltage protection                   | Yes   |              |
| Output over current protection                   | Yes   |              |
| Short circuit protection                         | Yes   |              |
| Surge protection                                 | Yes   |              |
| Temperature protection                           | Yes   |              |
| Integrated AFCI 2.0                              | Optional  |              |
| <b>General Data</b>                              |   |              |
| Dimensions (W*H*D)                               | 340*495*170 mm                                    |              |
| Weight   | 14.1 kg   |              |
| Topology   | High frequency non-isolation                      |              |
| Relative humidity                                | 5% - 95% (Non-condensing)                         |              |
| Operating ambient temperature range              | -10 ~ +60°C                                       |              |
| Storage temperature range                        | -25 ~ +60°C                                       |              |
| Ingress protection                               | IP21  |              |
| Max. operation altitude                          | 2000 m  |              |
| Parallel capability                              | 6 units   |              |
| Safety standard                                  | IEC 62109, IEC 61000, 55011                       |              |
| <b>Features</b>                                  |   |              |
| DC connection                                    | Terminal connectors                               |              |
| AC connection                                    | Terminal connectors                               |              |
| Display  | LCD   |              |
| Communication                                    | CAN, BMS, Dry-contact, Bluetooth, Optional: Wi-Fi |              |