



solis

20<sup>th</sup>  
ANNIVERSARY



# Solis Solarator Series

Experience Uninterrupted Power with Solis Energy Storage Inverters

## Off-Grid Inverters

### S6-EO1P(4-5)K-48

Single Phase | Low Voltage

- Compatible with generator as backup power supply for off grid system
- Support parallel and AC coupling function to extend the system capacity
- Supports six different battery charging and discharging TOU (Time of Use) settings to lower your electricity bill
- 10 seconds of 200% overload capability
- Multiple battery options including fast configuration for non-communicating batteries
- Support one click fast charging mode
- Supports dual backup load for intelligent load prioritizing

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# DATASHEET

# S6-EO1P(4-5)K-48

| Models   | 4K           | 5K   |
|--|--------------|--|
| <b>Solar Charger</b>                             |              |  |
| Max. usable PV input power                       | 5.5 kW       | 6.5 kW   |
| Max. input voltage                               |              | 500 V  |
| Rated voltage                                    |              | 360 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 × 480 × 170 mm                                     |
| Weight   |              | 13.8 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: S3-WiFi-ST |