



solis

20th
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
- Support one click fast charging mode
- 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
- Supports dual backup load for intelligent load prioritizing

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DATASHEET

S6-EO1P(4-5)K-48

Models	4K	5K
Solar Charger		
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
Battery		
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
Inverter Output		
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%
AC Charger (grid port and generator port)		
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
Protection		
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
General Data		
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
Features		
DC connection		Terminal connectors
AC connection		Terminal connectors
Display		LCD
Communication		CAN, BMS, Dry-contact, Bluetooth, Optional: Wi-Fi