

**4-6K**

SOLARATOR SERIES

Operates Seamlessly with Generators: Experience Uninterrupted Power, Even in Areas with Grid Instability

S6-EO1P(4-6)K-48

Single Phase | Low Voltage



- Compatible with generator as backup power supply for off grid system
- Easily expand system capacity using parallel connections and AC coupling
- 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

Models	4K	5K	6K
Solar Charger			
Max. usable PV input power	5.5 kW	6.5 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		120 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		6 kW
Max. charge / discharge current	100 A		120 A
Communication	CAN		
Inverter Output			
Rated output power	4 kVA / 4 kW	5 kVA / 5 kW	6 kVA / 6 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	12 kVA
Max. output current	20 A	25 A	30 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	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	30 A
Max. AC charge current	60 A	80 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		
Noise emission (typical)	< 55 dB(A)		
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		