

S6-EH1P8K-L-PRO

Solis Single Phase Low Voltage Energy Storage Inverters

Features:

- Generator connectivity with multiple input methods and automatic generator On/Off control
- Automatic UPS switching
- 10 second 200% surge power backup overload capability
- Supports 1ph and 3ph flexible connection with max 48kW in parallel
- Up to 190A max charge/discharge current
- 6 customisable charge/discharge time settings
- Compatible with lead-acid and lithium batteries, with multiple battery protection features
- Supports peak shaving control in both "self-use" and "generator" mode

Models:

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DATASHEET

S6-EH1P8K-L-PRO

Models	8K
Input DC (PV side)	
Recommended max. PV array size	16 kW
Max. usable PV input power	12.8 kW
Max. input voltage	600 V
Rated voltage	330 V
Start-up voltage	90 V
MPPT voltage range	90 - 520 V
Max. input current	32 A / 20 A
Max. short circuit current	36 A / 30 A
MPPT number / Max. input strings number	2 / 3
Battery	
Battery type	Li-ion / Lead-acid
Battery voltage range	40 - 60 V
Max. charge / discharge power	8 kW
Max. charge / discharge current	190 A
Communication	CAN / RS485
Output AC (Grid side)	
Rated output power	8 kW
Max. apparent output power	8.8 kVA
Operation phase	1/N/PE
Rated grid voltage	220 V / 230 V
Rated grid frequency	50 Hz / 60 Hz
Rated grid output current	36.4 A / 34.8 A
Max. output current	40 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)
THDi	< 2%
Input AC (Grid side)	
Input voltage range	187 - 253 V
Max. input current	50 A
Frequency range	45 - 55 Hz / 55 - 65 Hz
Output AC (Back-up)	
Rated output power	8 kW
Max. apparent output power	2 times of rated power, 10 s
Back-up switch time	< 4 ms
Rated output voltage	1/N/PE, 220 V / 230 V
Rated frequency	50 Hz / 60 Hz
Rated output current	36.4 A / 34.8 A
Max. output current	40 A
Max. AC passthrough current	50 A
THDv (@linear load)	< 2%
Efficiency	
Max. efficiency	> 96.9%
EU efficiency	> 96.5%
Protection	
DC reverse-polarity protection	Yes
Ground fault monitoring	Yes
Integrated AFCI	Yes ⁽¹⁾
Protection class / Over voltage category	I / II (PV and BAT), III (MAINS and BACKUP and GEN)
General Data	
Dimensions (W × H × D)	406 × 560 × 215 mm
Weight	26 kg
Topology	High frequency isolation (for battery)
Operating ambient temperature range	-40 ~ +60°C
Ingress protection	IP66
Cooling concept	Intelligent fan-cooling
Max. operation altitude	4000 m
Grid connection standard	NRS 097-2-1, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, MEA, PEA
Safety / EMC standard	IEC/EN 62109-1/-2, EN 61000-6-2/-3
Features	
DC connection	MC4 plug (PV port) / Terminal Block (BAT port)
AC connection	Terminal Block
Display	LED indicator & Bluetooth + APP
Communication	RS485, CAN, Optional: Wi-Fi, GPRS, LAN

(1) Activation required.