

S6-EH1P(6-8)K-L-PLUS

Solis Single Phase Low Voltage Energy Storage Inverters

New PLUS model provides solutions for demanding power scenarios

Features:

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

Models:

S6-EH1P6K-L-PLUS

S6-EH1P8K-L-PLUS



DATASHEET

S6-EH1P(6-8)K-L-PLUS

Models	6K	8K
Input DC (PV side)		
Recommended max. PV power	9.6 kW	12.8 kW
Max. input voltage	500 V	
Rated voltage	330 V	
Start-up voltage	90 V	
MPPT voltage range	90-435 V	
Max. input current	16 A / 16 A	32A / 32 A
Max. short circuit current	20 A / 20 A	40 A / 40 A
MPPT number/Max. input strings number	2/2	2/4
Battery		
Battery type	Li-ion / Lead-acid	
Battery voltage range	40-60 V	
Max. charge / discharge power	6 kW	8 kW
Max. charge / discharge current	135 A	190 A
Communication	CAN/RS485	
Output AC (Grid side)		
Rated output power	6 kW	8 kW
Max. apparent output power	6 kVA	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	27.3 A / 26.1 A	36.4 A / 34.8 A
Max. output current	27.3 A / 26.1 A	36.4 A / 34.8 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	40 A	50 A
Frequency range	45-55 Hz / 55-65 Hz	
Output AC (Back-up)		
Rated output power	6 kW	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	27.3 A / 26.1 A	36.4 A / 34.8 A
Max. AC Passthrough current	40 A	50 A
THDv (@linear load)	<2%	
Efficiency		
Max. efficiency	97.5%	
EU efficiency	96.5%	
BAT charged by PV/AC Max. efficiency	95.3% / 93.9%	
BAT discharged to AC Max. efficiency	93.8%	
Protection		
Ground fault monitoring	Yes	
DC reverse-polarity protection	Yes	
Integrated AFCI (DC arc-fault circuit protection)	Yes ⁽¹⁾	
Protection class/Over voltage category	I / II(PV and BAT), III (MAINS and BACKUP and GEN)	
General Data		
Dimensions (W*H*D)	335*560*227 mm	
Weight	21.6 kg	22.2 kg
Topology	High frequency isolation (for battery)	
Operating ambient temperature range	-40 ~ +60°C	
Ingress protection	IP66	
Cooling concept	Intelligent redundant 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 + APP	
Communication	RS485, CAN, Optional: Wi-Fi, GPRS, LAN	

(1) Activation required.