

S6-EH1P(5-8)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-EH1P5K-L-PLUS

S6-EH1P6K-L-PLUS

S6-EH1P8K-L-PLUS



DATASHEET
S6-EH1P(5-8)K-L-PLUS

Models	5K	6K	8K
Input DC (PV side)			
Recommended max. PV array size	10 kW	12 kW	16 kW
Max. usable PV input power	8 kW	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		32 A / 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	5 kW	6 kW	8 kW
Max. charge / discharge current	112 A	135 A	190 A
Communication	CAN/RS485		
Output AC (Grid side)			
Rated output power	5 kW	6 kW	8 kW
Max. apparent output power	5.5 kVA	6.6 kVA	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	22.8 A / 21.8 A	27.3 A / 26.1 A	36.4 A / 34.8 A
Max. output current	25 A / 23.9 A	30 A / 28.7 A	40 A / 38.3 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	32 A	40 A	50 A
Frequency range	45-55 Hz / 55-65 Hz		
Output AC (Back-up)			
Rated output power	5 kW	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	22.8 A / 21.8 A	27.3 A / 26.1 A	36.4 A / 34.8 A
Max. AC Passthrough current	40 A	40 A	50 A
THDv (@linear load)	<2%		
Efficiency			
Max. efficiency	96.2%		
EU efficiency	94.7%		
BAT charged by PV/AC Max. efficiency	95.3%/94.5%		
BAT discharged to AC Max. efficiency	94.9%		
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	Natural convection	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	LCD + Bluetooth + APP		
Communication	RS485, CAN, Optional: Wi-Fi, GPRS, LAN		

(1) Activation required.