

Solis Solarator Series

Experience Uninterrupted Power with Solis Energy Storage Inverters

Energy Storage Inverters

S6-EH1P(3-8)K-L-PLUS-AU

Single Phase | Low Voltage



Smart Energy Management

- AI intelligently manages charging and discharging based on TOU (Time-of-Use) tariffs
- Seamless integration with VPP and EMS platforms for enhanced energy optimization



High Performance

- 200% PV input capacity to maximize solar energy utilization
- Switching time < 4ms



Flexible & Scalable

- Compatible with mainstream lithium and lead-acid batteries
- Easily expand system capacity using parallel connections and AC coupling



Simple & Fast Configuration

- Bluetooth app support for quick and easy setup

AUSTRALIA

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DATASHEET

S6-EH1P(3-8)K-L-PLUS-AU

Models	3K	3.6K	5K	6K	8K
Input DC (PV side)					
Recommended max. PV array size	6 kW	7.2 kW	10 kW	12 kW	16 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	3 kW	3.6 kW	5 kW	6 kW	8 kW
Max. charge / discharge current	70 A	80 A	112 A	135 A	190 A
Communication			CAN / RS485		
Output AC (Grid side)					
Rated output power	3 kW	3.6 kW	5 kW	6 kW	8 kW
Max. apparent output power	3 kVA	3.6 kVA	5 kVA	6 kVA	8 kVA
Operation phase			1/N/PE		
Rated grid voltage			230 V		
Rated grid frequency			50 Hz		
Rated grid output current	13.1 A	15.7 A	21.8 A	26.1 A	34.8 A
Max. output current	13.1 A	15.7 A	21.8 A	26.1 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	20 A	24 A	31 A	39 A	50 A
Frequency range			45 - 55 Hz		
Output AC (Back-up)					
Rated output power	3 kW	3.6 kW	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, 230 V		
Rated frequency			50 Hz		
Rated output current	13.1 A	15.7 A	21.8 A	26.1 A	34.8 A
Max. AC passthrough current	35 A	35 A	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			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	22 kg		22.5 kg		
Topology			Transformerless		
Operating ambient temperature range			-40 ~ +60°C		
Ingress protection			IP66		
Noise emission (typical)			< 65 dB(A)		
Cooling concept	Natural cooling		Intelligent fan-cooling		
Max. operation altitude			4000 m		
Grid connection standard			AS 4777		
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		
Country of manufacture			China		

(1) Activation required.