

S6-EH1P(3-6)K-L-AU

Solis Single Phase Low Voltage Energy Storage Inverters

Features:

- Integrated 2 MPPTs for multiple array orientations
- Industry leading 125A/6kW max charge/discharge rating
- Automatic UPS switching
- Supports Peak Shaving Mode
- Pre-made Battery, Meter and CAN cabling to reduce installation time
- Compatible with multiple brands of lithium battery models
- Increased battery protection and operation features to extend battery life

Models:

S6-EH1P3K-L-AU / S6-EH1P3.6K-L-AU

S6-EH1P4.6K-L-AU / S6-EH1P5K-L-AU

S6-EH1P6K-L-AU



360° View

DATASHEET

S6-EH1P(3-6)K-L-AU

Models	3K	3.6K	4.6K	5K	6K
Input DC (PV side)					
Recommended max. PV power	6 kW	7.2 kW	9.2 kW	10 kW	12 kW
Max. input voltage	600 V				
Rated voltage	330 V				
Start-up voltage	90 V				
MPPT voltage range	90 - 520 V				
Max. input current	16 A / 16 A				
Max. short circuit current	24 A / 24 A				
MPPT number / Max. input strings number	2 / 2				
Battery					
Battery type	Li-ion / Lead-acid				
Battery voltage range	42 - 58 V				
Battery capacity	50 - 2000 Ah				
Max. charge / discharge power	3 kW	3.6 kW	4.6 kW	5 kW	6 kW
Max. charge / discharge current	62.5 A	75 A	100 A	105 A	125 A
Communication	CAN				
Output AC (Grid side)					
Rated output power	3 kW	3.6 kW	4.6 kW	5 kW	6 kW
Max. apparent output power	3 kVA	3.6 kVA	4.6 kVA	5 kVA	6 kVA
Operation phase	1/N/PE				
Rated grid voltage	230 V				
Rated grid frequency	50 Hz				
Rated grid output current	13.0 A	15.7 A	20 A	21.7 A	26.1 A
Max. output current	13.0 A	15.7 A	20 A	21.7 A	26.1 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)				
THDi	3%				
Input AC (Grid side)					
Rated voltage	230 V				
Max. input current	20 A	24.6 A	31.4 A	32 A	40 A
Frequency range	50 Hz				
Output AC (Back-up)					
Rated output power	3 kW	3.6 kW	4.6 kW	5 kW	6 kW
Max. apparent output power	4.2 kVA, 60 s	5 kVA, 60 s	6.4 kVA, 60 s	7 kVA, 60 s	8 kVA, 60 s
Back-up switch time	< 10 ms				
Rated output voltage	1/N/PE, 230 V				
Rated frequency	50 Hz				
Rated. output current	13.0 A	15.7 A	20 A	21.7A	26.1 A
THDv (@linear load)	3%				
Efficiency					
Max. efficiency	> 97.0%		> 97.5%		
EU efficiency	> 96.2%				
BAT charged by PV max. efficiency	> 94.9%				
BAT charged / discharged to AC max. efficiency	> 94.33% / 93.51%				
Protection					
DC reverse-polarity protection	Yes				
Ground fault monitoring	Yes				
Integrated AFCI	Yes ⁽¹⁾				
Protection class / Over voltage category	I / II				
General Data					
Dimensions (W × H × D)	405 × 480 × 205 mm				
Weight	20.3 kg		22.4 kg		
Topology	High frequency isolation (for battery)				
Operating ambient temperature range	-25 ~ +60°C				
Ingress protection	IP66				
Cooling concept	Natural cooling				
Max. operation altitude	3000 m				
Grid connection standard	AS 4777				
Safety / EMC standard	IEC/EN 62109-1/-2, EN 61000-6-1/-2/-3/-4				
Features					
DC connection	MC4 connector				
AC connection	Quick connection plug				
Display	LED indicator & Bluetooth + APP				
Communication	RS485, CAN, Optional: Wi-Fi, GPRS, LAN				
Country of manufacture	China				

(1) Activation required.