

S6-EH3P(5-10)K-H-AU

Solis Three Phase High Voltage Energy Storage Inverters

Highly Flexible

- Integrated 3 or 4 MPPTs for multiple array orientations
- Industry leading 50A/10kW max charge/discharge rating
- Automatic UPS switching
- Supports Peak Shaving Mode
- Pre-made Battery, Meter and CAN cabling to reduce installation time
- Supports Unbalanced and Half-Wave Loads on both the Grid and Backup Port
- Compatible with multiple brands of lithium battery models
- Increased battery protection and operation features to extend battery life

Models:

S6-EH3P5K-H-AU / S6-EH3P6K-H-AU

S6-EH3P8K-H-AU / S6-EH3P10K-H-AU



360° View

DATASHEET

S6-EH3P(5-10)K-H-AU

Models	5K	6K	8K	10K
Input DC (PV side)				
Recommended max. PV array size	6.6 kW	7.9 kW	10.6 kW	13.3 kW
Max. usable PV input power	6.6 kW	7.9 kW	10.6 kW	13.3 kW
Max. input voltage	1000 V			
Rated voltage	600 V			
Start-up voltage	160 V			
MPPT voltage range	200 - 850 V			
Max. input current	16 A / 16 A / 16 A		4 × 16 A	
Max. short circuit current	24 A / 24 A / 24 A		4 × 24 A	
MPPT number / Max. input strings number	3 / 3		4 / 4	
Battery				
Battery type	Li-ion			
Battery voltage range	120 - 600 V			
Max. charge / discharge power	5 kW	6 kW	8 kW	10 kW
Max. charge / discharge current	25 A		50 A	
Communication	CAN / RS485			
Output AC (Grid side)				
Rated output power	5 kW	6 kW	8 kW	10 kW
Max. apparent output power	5 kVA	6 kVA	8 kVA	10 kVA
Rated grid voltage	3/N/PE, 380 V / 400 V			
Rated grid frequency	50 Hz			
Rated grid output current	7.6 A / 7.2 A		12.2 A / 11.5 A	
Max. output current	7.6 A / 7.2 A		12.2 A / 11.5 A	
Power factor	> 0.99 (0.8 leading - 0.8 lagging)			
THDi	< 3%			
Input AC (Grid side)				
Input voltage range	304 - 437 V			
Max. input current	11.4 A	13.8 A	18.2 A	22.8 A
Rated grid frequency	50 Hz			
Frequency range	45 - 55 Hz			
Output AC (Back-up)				
Rated output power	5 kW	6 kW	8 kW	10 kW
Max. apparent output power	8 kVA, 60 s	9.6 kVA, 60 s	12.8 kVA, 60 s	16 kVA, 60 s
Back-up switch time	< 10 ms			
Rated output voltage	3/N/PE, 380 V / 400 V			
Rated frequency	50 Hz			
Rated output current	7.6 A / 7.2 A		12.2 A / 11.5 A	
THDv (@linear load)	< 2%			
Efficiency				
Max. efficiency	96.50%	97.00%	97.50%	97.90%
EU efficiency	96.77%	97.10%	97.41%	97.51%
BAT charged by PV max. efficiency	98.37%	98.45%	98.22%	98.31%
BAT charged / discharged to AC max. efficiency	97.32%	97.34%	97.50%	97.50%
Protection				
Anti-islanding protection	Yes			
Output over current protection	Yes			
Short circuit protection	Yes			
Integrated AFCI 2.0	Optional			
Integrated DC switch	Yes			
DC reverse-polarity protection	Yes			
PV over voltage protection	Yes			
Battery reverse protection	Yes			
General Data				
Max. allowable phase imbalance (grid & back-up)	100%			
Max. power per phase (grid & back-up)	50% rated power			
Dimensions (W × H × D)	600 × 500 × 210 mm		600 × 500 × 230 mm	
Weight	27.6 kg		30.2 kg	
Topology	Transformerless			
Self-consumption (night)	< 25 W			
Operating ambient temperature range	-25 ~ +60°C			
Relative humidity	0 - 95%			
Ingress protection	IP66			
Noise emission (typical)	< 46.9 dB(A)			
Cooling concept	Natural cooling			
Max. operation altitude	4000 m			
Grid connection standard	G98 or G99, VDE-AR-N 4105/VDE V 0124, EN 50549-1, VDE 0126/UTE C 15/VFR:2019, RD 1699/RD 244/UNE 206006/UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, TOR, EIFS 2018.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, MEA, PEA			
Safety / EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-3			
Features				
PV connection	MC4 connector			
Battery connection	Quick connection plug			
AC connection	Quick connection plug			
Display	LED indicator & Bluetooth + APP			
Communication	CAN, RS485, Optional: Wi-Fi, Cellular, LAN			
Country of manufacture	China			