

S6-EH3P(5-10)K2-H

Solis Three Phase High Voltage Energy Storage Inverters

Features:

- 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-EH3P5K2-H / S6-EH3P6K2-H

S6-EH3P8K2-H / S6-EH3P10K2-H



360° View



DATASHEET

S6-EH3P(5-10)K2-H

Models	5K		6K		8K		10K	
Input DC (PV side)								
Recommended max. PV array size	10 kW		12 kW		16 kW		20 kW	
Max. usable PV input power	8 kW		9.6 kW		12.8 kW		16 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							
Max. short circuit current	24 A / 24 A							
MPPT number / Max. input strings number	2 / 2							
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		9.1 A / 8.7 A		12.2 A / 11.5 A		15.2 A / 14.4 A	
Max. output current	7.6 A / 7.2 A		9.1 A / 8.7 A		12.2 A / 11.5 A		15.2 A / 14.4 A	
Power factor	> 0.99 (0.8 leading - 0.8 lagging)							
THDi	< 3%							
Input AC (Grid side)								
Input voltage range	304 - 437 V / 320 - 460 V							
Max. input current	11.4 A		13.8 A		18.2 A		22.8 A	
Rated grid frequency	50 Hz / 60 Hz							
Frequency range	45 - 55 Hz / 55 - 65 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		9.1 A / 8.7 A		12.2 A / 11.5 A		15.2 A / 14.4 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							