

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 / 60 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 / 60 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					