

S6-EH3P(3-10)K-H-EU

Solis Three Phase High Voltage Energy Storage Inverters

Features:

- Integrated 2/3/4 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-EH3P3K-H-EU / S6-EH3P4K-H-EU

S6-EH3P5K-H-EU / S6-EH3P6K-H-EU

S6-EH3P8K-H-EU / S6-EH3P10K-H-EU



360° View

DATASHEET

S6-EH3P(3-10)K-H-EU

Models	3K	4K	5K	6K	8K	10K
Input DC (PV side)						
Recommended max. PV power	4.8 kW	6.4 kW	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		16 A / 16 A / 16 A		16 A / 16 A / 16 A / 16 A	
Max. short circuit current	24 A / 24 A		24 A / 24 A / 24 A		24 A / 24 A / 24 A / 24 A	
MPPT number/Max. input strings number	2/2		3/3		4/4	
Battery						
Battery type				Li-ion		
Battery voltage range				120-600 V		
Max. charge / discharge power	3 kW	4 kW	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	3 kW	4 kW	5 kW	6 kW	8 kW	10 kW
Max. apparent output power	3 kVA	4 kVA	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	4.6 A / 4.3 A	6.1 A / 5.8 A	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	4.6 A / 4.3 A	6.1 A / 5.8 A	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)						
Max. input power	4.5 kW	6 kW	7.5 kW	9 kW	12 kW	15 kW
Rated input current	6.8 A	9.1 A	11.4 A	13.8 A	18.2 A	22.8 A
Rated input voltage				3/N/PE, 380 V / 400 V		
Rated input frequency				50 Hz / 60 Hz		
Output AC (Back-up)						
Rated output power	3 kW	4 kW	5 kW	6 kW	8 kW	10 kW
Max. apparent output power	4.8 kVA, 60 sec	6.4 kVA, 60 sec	8 kVA, 60 sec	9.6 kVA, 60 sec	12.8 kVA, 60 sec	16 kVA, 60 sec
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	4.6 A / 4.3 A	6.1 A / 5.8 A	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	95.5%	96.0%	96.5%	97.0%	97.5%	97.9%
EU efficiency	95.5%	96.0%	96.8%	97.1%	97.4%	97.5%
BAT charged by PV Max. efficiency	96.0%	96.6%	98.4%	98.5%	98.2%	98.3%
BAT charged/discharged to AC Max. efficiency	97.0%	97.3%	97.3%	97.3%	97.5%	97.5%
Protection						
Anti-islanding protection				Yes		
Output over current protection				Yes		
Short circuit protection				Yes		
Integrated AFCI (DC arc-fault circuit protection)				Yes ⁽¹⁾		
Integrated DC switch				Yes		
DC reverse-polarity protection				Yes		
PV over voltage protection				Yes		
Battery reverse protection				Yes		
General Data						
Dimensions (W*H*D)	600*500*210 mm			600*500*230 mm		
Weight	26.4 kg		27.6 kg		30.2 kg	
Topology				Transformerless		
Self-consumption (night)				<25 W		
Operating ambient temperature range				-25 ~ +60°C		
Ingress protection				IP66		
Relative humidity				0-95%		
Cooling concept				Natural convection		
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 + Bluetooth + APP		
Communication				CAN, RS485, Optional: Wi-Fi, Cellular, LAN		

(1) Activation required.