Solis Energy Storage Inverters

»S6-EH3P(5-10)K-H-EU



Highly Flexible

- Integrated 2 to 4 MPPTs, suitable for residential rooftop installations with multiple array orientations
- Supports Unbalanced and Half-Wave Loads on the Grid Port and on the Backup Port
- Compatible with multiple brands of battery models giving customers multiple battery options

Intelligent Function

- Supports up to 10 units in parallel on Grid and Backup. Suitable for small to medium level commercial energy storage systems
- Supports pure off grid applications with generator communication support
- Multiple working modes to meet different use case scenarios
- Controllable and Upgadeable via the SolisCloud App to avoide site visits

Safe and Reliable

- Safety protection with integrated AFCI function, which actively detects arc faults in the PV Array
- ▶ Natural convection design without external fans

Outstanding Performance

- ► Up to **16A** of MPPT current input to support 182mm/210mm solar panels
- Supports 1.6 DC:AC ratio to connect more PV capacity to the energy storage system
- Up to 50A/10kW max charge/discharge rating with industry highest level 10kW of backup loads support capability
- ► UPS level switching time (<10ms) supporting critical loads all the time
- ▶ High PV charge efficiency to prevent excess PV loss

Model:

S6-EH3P5K-H-EU S6-EH3P6K-H-EU S6-EH3P8K-H-EU S6-EH3P10K-H-EU



Datasheet					
Model Name	S6-EH3P5K-H-EU	S6-EH3P6K-H-EU	S6-EH3P8K-H-EU	S6-EH3P10K-H-EU	
Input DC (PV side)					
Recommended max. PV power	8 kW	9.6 kW	12.8 kW	16 kW	
Max. input voltage	1000 V				
Rated voltage Start-up voltage	600 V 160 V				
MPPT voltage range	200-850 V				
Max. input current	16 A / 1	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 Battery	3/3			4/4	
Battery type		Li-i	ion		
Battery voltage range	120-600 V				
Max. charge / discharge power	5 kW	6 kW	8 kW	10 kW	
Max. charge / discharge current	2	25 A		50 A	
Communication		CAN/F	RS485		
Output AC (Grid side)					
Rated output power	5 kW	6 kW	8 kW	10 kW	
Max. apparent output power	5.5 kVA	6.6 kVA	8.8 kVA	11 kVA	
Rated grid traguancy	3/N/PE, 380 V / 400 V 50 Hz / 60 Hz				
Rated grid output current	764/724			15 2 4 / 14 4 4	
Rated grid output current Max. output current	7.6 A / 7.2 A 8.4 A / 7.9 A	9.1 A / 8.7 A 10 A / 9.6 A	12.2 A / 11.5 A 13.4 A / 12.7 A	15.2 A / 14.4 A 16.7 A / 15.8 A	
Power Factor	0.4 A/ 1.5 A			10.7 A/ 15.6 A	
THDi	>0.99 (0.8 leading - 0.8 lagging) <3%				
Input AC (Grid side)		Ū	.,.		
Max. input power	7.5 kW	9 kW	12 kW	15 kW	
Max. input current	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	5 kW	6 kW	8 kW	10 kW	
Max. apparent output power	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 50 Hz / 60 Hz				
Rated frequency	764/734			15 2 4 / 14 4 4	
Rated output current THDv (@linear load)	7.6 A / 7.2 A	9.1 A / 8.7 A	12.2 A / 11.5 A	15.2 A / 14.4 A	
Efficiency		~2	. /0		
Max. efficiency		98.2	2%		
EU efficiency	97.5%				
BAT charged by PV Max. efficiency	98.2%				
BAT charged/discharged to AC Max. efficiency	97.5%				
Protection Anti-islanding protection		Ve	25		
Output over current protection	Yes				
Short circuit protection	Yes				
Integrated AFCI (DC arc-fault circuit protection)	Yes ⁽¹⁾				
Integrated DC switch	Optional				
DC reverse polarity protection	Yes				
PV overvoltage protection	Yes				
Battery reverse protection		Ye	es		
General Data Dimensions (W*H*D)		506*406*	*230 mm		
Weight	596*496*230 mm 31.8 kg				
Topology	۲ransformerless				
Self consumption (night)	<25 W				
Operating ambient temperature range	-25 ~ +60°C				
Ingress protection	IP66				
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 Features		IEC/EN 62109-1/-2, I	IEC/EN 61000-6-1/-3		
PV connection		MC4 cor	nnector		
Battery connection		Quick conne			
Dattery commettion	Quick connection plug				
AC connection		Quick conne	ection plug		
-			ection plug tooth + APP		

(1) Activation required.