

S6-EH3P(8-12)K-LV-H

Solis Three Phase High Voltage Energy Storage Inverters

Features:

- Generator-compatible to extend backup duration during grid power outage
- Supports dual backup ports for intelligent control of critical and non-critical loads
- SG heat pump compatibility
- Supports a maximum input current of 20A, making it ideal for all high-power PV modules of any brand
- Supports AC voltage detection of grid and generator output to prevent damage to generators from reverse current from the grid
- Supports peak shaving features in "self-use" and "generator" modes
- Supports Unbalanced and Half-Wave Loads on both the Grid and Backup Port

Models:

S6-EH3P8K-LV-H

S6-EH3P10K-LV-H

S6-EH3P12K-LV-H



DATASHEET

S6-EH3P(8-12)K-LV-H

Models	8K	10K	12K
Input DC (PV side)			
Recommended max. PV array size	16 kW	20 kW	24 kW
Max. usable PV input power	12.8 kW	16 kW	19.2 kW
Max. input voltage	1000 V		
Rated voltage	600 V		
Start-up voltage	160 V		
MPPT voltage range	200-850 V		
Max. input current	4*16 A		4*20 A
Max. short circuit current	4*24 A		4*30 A
MPPT number/Max. input strings number	4/4		
Battery			
Battery type	Li-ion		
Battery voltage range	120-600 V		
Max. charge / discharge power	8 kW	10 kW	12 kW
Max. charge / discharge current	50 A		
Communication	CAN/RS485		
Output AC (Grid side)			
Rated output power	8 kW	10 kW	12 kW
Max. apparent output power	8 kVA	10 kVA	12 kVA
Rated grid voltage	3/N/PE, 230 V		
Rated grid frequency	50 Hz / 60 Hz		
Rated grid output current	20.1 A	25.1 A	30.1 A
Max. output current	20.1 A	25.1 A	30.1 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)		
THDi	<3%		
Input AC (Grid side)			
Max. input power	12 kW	15 kW	18 kW
Rated input current	30.1 A	37.7 A	45.2 A
Rated input voltage	3/N/PE, 230 V		
Rated input frequency	50 Hz / 60 Hz		
Output AC (Back-up)			
Rated output power	8 kW	10 kW	12 kW
Max. apparent output power	2 times of rated power, 10 s		
Back-up switch time	<10 ms		
Rated output voltage	3/N/PE, 230 V		
Rated frequency	50 Hz / 60 Hz		
Rated output current	40.2 A	50.2 A	60.3 A
THDv (@linear load)	<2%		
Efficiency			
Max. efficiency	98.5%		
EU efficiency	97.5%		
BAT charged by PV Max. efficiency	98.5%		
BAT charged/discharged to AC Max. efficiency	97.5%		
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			
Dimensions (W*H*D)	599*546*243 mm		
Weight	31 kg		
Topology	Transformerless		
Self-consumption (night)	<25 W		
Operating ambient temperature range	-25 ~ +60°C		
Relative humidity	0-95%		
Ingress protection	IP66		
Cooling concept	Intelligent redundant fan-cooling		
Max. operation altitude	4000 m		
Grid connection standard	VDE4105		
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-3		
Features			
PV connection	MC4 connector		
Battery connection	Latched type plug		
AC connection	Latched type plug		
Display	LCD + Bluetooth + APP		
Communication	CAN, RS485, Ethernet, Optional: Wi-Fi, Cellular, LAN		