

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

Solis Three Phase High Voltage Energy Storage Inverters

Applicable only to Nordic countries

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-ND-H

S6-EH3P10K-LV-ND-H

S6-EH3P12K-LV-ND-H



DATASHEET

S6-EH3P(8-12)K-LV-ND-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		120-800 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	
Input Generator			
Max. input power	8 kW	10 kW	12 kW
Max. input current	20.1 A	25.1 A	30.1 A
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		1.6 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	20.1 A	25.1 A	30.1 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)		563*546*235 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		LED + Bluetooth + APP	
Communication		CAN, RS485, Ethernet, Optional: Wi-Fi, Cellular, LAN	