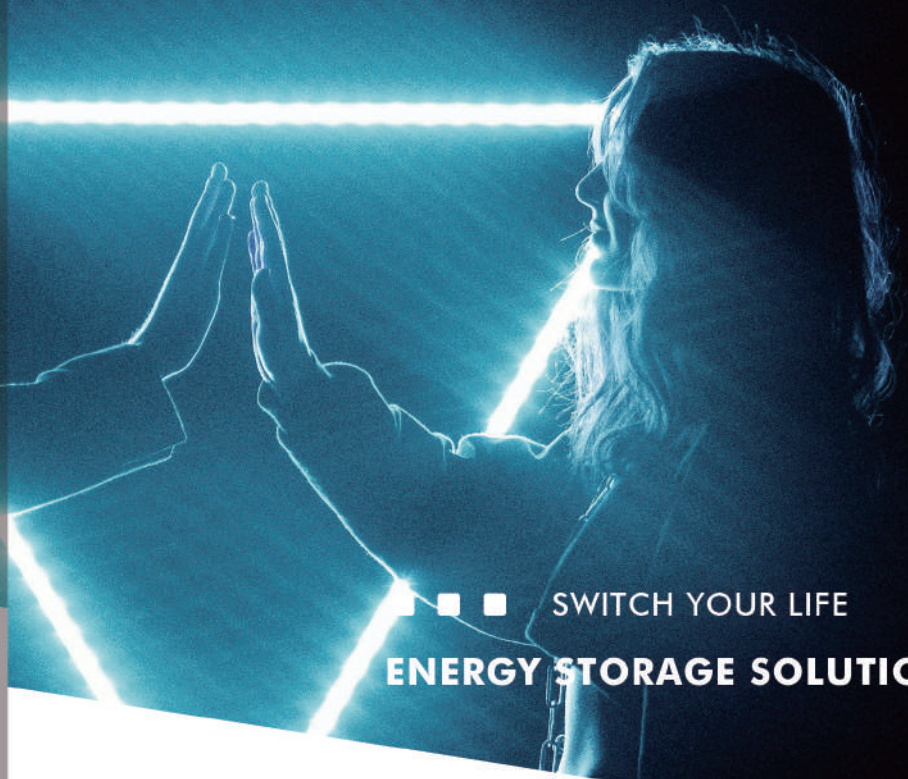




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SWITCH YOUR LIFE  
**ENERGY STORAGE SOLUTIONS**



## **S6-EH3P(12-20)K-H-LP**

### **Three Phase High Voltage Energy Storage Inverters**

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



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Models	12K	15K	20K
<b>Input DC (PV side)</b>			
Recommended max. PV array size	24 kW	30 kW	40 kW
Max. usable PV input power	19.2 kW	24 kW	32 kW
Max. input voltage		1000 V	
Rated voltage		600 V	
Start-up voltage		160 V	
MPPT voltage range		200-850 V	
Max. input current		20 A / 20 A / 20 A / 20 A	
Max. short circuit current		30 A / 30 A / 30 A / 30 A	
Max. input power per MPPT		9 kW	
MPPT number/Max. input strings number		4/4	
<b>Battery</b>			
Battery type		Li-ion	
Battery voltage range		120-800 V	
Max. charge / discharge power	12 kW	15 kW	20 kW
Max. charge / discharge current		50 A	
Communication		CAN/RS485	
<b>Output AC (Grid side)</b>			
Rated output power	12 kW	15 kW	20 kW
Max. apparent output power	12 kVA	15 kVA	20 kVA
Rated grid voltage		3/N/PE, 380 V / 400 V	
Rated grid frequency		50 Hz / 60 Hz	
Rated grid output current	18.2 A / 17.3 A	22.8 A / 21.7 A	30.4 A / 28.9 A
Max. output current	18.2 A / 17.3 A	22.8 A / 21.7 A	30.4 A / 28.9 A
Power factor		>0.99 (0.8 leading - 0.8 lagging)	
THDi		<3%	
<b>Input AC (Grid side)</b>			
Max. input power	18 kW	22.5 kW	30 kW
Rated input current	27.3 A / 26 A	34.2 A / 32.5 A	45.6 A / 43.3 A
Rated input voltage		3/N/PE, 380 V / 400 V	
Rated input frequency		50 Hz / 60 Hz	
<b>Output AC (Back-up)</b>			
Rated output power	12 kW	15 kW	20 kW
Max. apparent output power		2 times of rated power, 10 s	1.6 time of rated power, 10 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	18.2 A / 17.3 A	22.8 A / 21.7 A	30.4 A / 28.9 A
THDv (@linear load)		<3%	
<b>Input Generator</b>			
Max. input power	12 kW	15 kW	20 kW
Max. input current	18.2 A / 17.3 A	22.8 A / 21.7 A	30.4 A / 28.9 A
Rated input frequency		50 Hz / 60 Hz	
<b>Efficiency</b>			
Max. efficiency		97.7%	
EU efficiency		97.5%	
BAT charged by PV Max. efficiency		98.5%	
BAT charged/discharged to AC Max. efficiency		97.2%	
<b>Protection</b>			
Anti-islanding protection		Yes	
Output over current protection		Yes	
Short circuit protection		Yes	
Integrated AFCI (DC arc-fault circuit protection)		Yes <sup>(1)</sup>	
Integrated DC switch		Yes	
DC reverse-polarity protection		Yes	
PV over voltage protection		Yes	
Battery reverse protection		Yes	
<b>General Data</b>			
Dimensions (W*H*D)		599*546*243 mm	
Weight	31 kg		31.7 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		2000 m	
Grid connection standard		EN 50549-1, VDE4105 CEI 0-21, CEI 0-16, NC-RFG TypeB, NRS 097-2-1 ED 2.1	
Safety/EMC standard		IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-3, IEC 61000-2	
<b>Features</b>			
PV connection		MC4 connector	
Battery connection		OT terminal	
AC connection		OT terminal	
Display		LCD or LED + Bluetooth + APP	
Communication		CAN, RS485, Ethernet, Optional: Wi-Fi, Cellular, LAN	

(1) Activation required.