

S6-EH3P(12-20)K-H

Solis Energy Storage Inverters

Features:

- Generator connectivity with multiple input methods and automatic generator On/Off control
- Automatic UPS switching
- 10 second 200% surge power backup overload capability
- Max. 10 pcs parallel for on-grid and off-grid operation
- Up to 50A max charge/discharge current
- 6 customisable charge/discharge time settings
- Increased battery protection and operation features to extend battery life
- Supports peak shaving control in both "self-use" and "generator" mode
- AC couple to retrofit existing solar system

Models:

S6-EH3P12K-H

S6-EH3P15K-H

S6-EH3P20K-H



DATASHEET

S6-EH3P(12-20)K-H

Models	12K	15K	20K
Input DC (PV side)			
Recommended max. PV 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	
Battery			
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	
Output AC (Grid side)			
Rated output power	12 kW	15 kW	20 kW
Max. apparent output power	12 kW	15 kW	20 kW
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%	
Input AC (Grid side)			
Max. input power	18 kW	22.5 kW	30 kW
Rated input current	27.3 A	34.2 A	45.6 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	12 kW	15 kW	20 kW
Max. apparent output power		2 times 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	36.5 A / 34.6 A	45.6 A / 43.3 A	60.8 A / 57.7 A
THDv (@linear load)		<3%	
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 (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)		563*546*235 mm	
Weight		TBD	
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		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	
Features			
PV connection		MC4 connector	
Battery connection		OT terminal	
AC connection		OT terminal	
Display		LED + Bluetooth + APP	
Communication		CAN, RS485, Ethernet, Optional: Wi-Fi, Cellular, LAN	

(1) Activation required.