

## S6-EH1P(12-16)K-L

# Solis Energy Storage Inverters

### Features:

- String current up to 20A, perfectly match large current modules
- Built-in Backup Port with Automatic UPS switching
- 10 second 200% surge power backup overload capability
- 6 customisable charge/discharge time settings
- Generator connectivity with multiple input methods and automatic generator On/Off control
- Supports 1ph and 3ph flexible connection with max 96kW in parallel
- Supports peak shaving control in both "self-use" and "generator" mode
- Intelligent AC coupling scheme, easily upgrade existing grid-connected systems

### Models:

S6-EH1P12K-L

S6-EH1P14K-L

S6-EH1P16K-L



# DATASHEET

# S6-EH1P(12-16)K-L

Models	12K	14K	16K
<b>Input DC (PV side)</b>			
Recommended max. PV power	16.8 kW	19.6 kW	22.4 kW
Max. input voltage		550 V	
Rated voltage		380 V	
Start-up voltage		100 V	
MPPT voltage range		80-520 V	
Max. input current		40 A / 40 A / 40 A	
Max. short circuit current		50 A / 50 A / 50 A	
MPPT number/Max. input strings number		3/6	
<b>Battery</b>			
Battery type		Li-ion / Lead-acid	
Battery voltage range		40 - 60 V	
Battery switch		Optional	
Communication		CAN/RS485	
<b>Output AC (Grid side)</b>			
Rated output power	12 kW	14 kW	16 kW
Max. apparent output power	12 kVA	14 kVA	16 kVA
Operation phase		L/N/PE	
Rated grid voltage		220 V / 230 V	
Rated grid frequency		50 Hz	
Rated grid output current	54.5 A / 52.2 A	63.6 A / 60.9 A	72.7 A / 69.6 A
Max. output current	54.5 A / 52.2 A	63.6 A / 60.9 A	72.7 A / 69.6 A
Power factor		1.0	
THDi		<3%	
<b>Input AC (Grid side)</b>			
Input voltage range		187-253 V	
Max. input current		110 A	
Frequency range		45-55 HZ/55-65 HZ	
<b>Output AC (Back-up)</b>			
Rated output power	12 kW	14 kW	16 kW
Max. apparent output power		2 times of rated power, 10 S	
Back-up switch time		<4 ms	
Rated output voltage		L/N/PE, 220 V / 230 V	
Rated frequency		50 Hz	
Rated output current	54.5 A / 52.2 A	63.6 A / 60.9 A	72.7 A / 69.6 A
Max. output over current protection, 10 sec	109 A	127 A	145 A
Max. Continuous AC Passthrough		100 A	
THDv (@linear load)		<3%	
Max. number of parallel		10	
<b>Input Generator</b>			
Max. input power	12 kW	14 kW	16 kW
Max. input current	54.5 A	63.6 A	72.7 A
Rated input frequency		50 Hz	
<b>Efficiency</b>			
Max. efficiency		97.6%	
EU efficiency		97.2%	
BAT charged by PV Max. efficiency		> 94.9%	
BAT charged/discharged to AC Max. efficiency		> 94.33%/93.51%	
<b>Protection</b>			
DC reverse-polarity protection		Yes (PV only)	
Ground fault monitoring		Yes	
Integrated AFCI (DC arc-fault circuit protection)		Yes <sup>(1)</sup>	
Protection class/Over voltage category		I/II	
<b>General Data</b>			
Dimensions (W*H*D)		464*763*282 mm	
Weight		48.5 kg	
Topology		Transformerless	
Operating ambient temperature range		-40 ~ +60°C	
Ingress protection		IP66	
Self-consumption (night)		<20 W	
Cooling concept		Intelligent redundant fan-cooling	
Max. operation altitude		4000 m	
Grid connection standard		NRS 097-2-1, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530	
Safety/EMC standard		IEC/EN 62109-1/-2, EN 61000-6-2/-3	
<b>Features</b>			
DC connection		MC4 plug (PV port) / Terminal Block (BAT port)	
AC connection		Terminal Block	
Interface		LED indicator lights, Bluetooth/Phone app	
Communication		RS485, Optional: Wi-Fi, LAN	

(1) Activation required.