

# S5-EH1P(3-6)K-L

## Solis Energy Storage Inverters



360 degree

### Features:

- ▶ Max. string input current **15A**
- ▶ Uninterrupted power supply, 20ms reaction
- ▶ 5kW backup power to support more important loads
- ▶ With shifting and peak shaving capabilities friendly to grid
- ▶ Multiple working modes to make maximize self-consumption, increase benefit
- ▶ Higher charge-discharge efficiency, improving the economic benefits
- ▶ Compatible with lithium & lead-acid batteries, increased more choice in different markets
- ▶ Fanless design, long lifespan
- ▶ Intelligent EMS function, improving battery's reliability
- ▶ With high-frequency isolation technology, making system safer and long lifespan
- ▶ 24-hour fully intelligent energy management, Real-time grasp of PV plant status
- ▶ Remotely control & upgrade function, making digital power plant maintenance at your fingertips



### Model:

- S5-EH1P3K-L      S5-EH1P3.6K-L
- S5-EH1P4.6K-L      S5-EH1P5K-L
- S5-EH1P6K-L

## Datasheet

Model Name	S5-EH1P3K-L	S5-EH1P3.6K-L	S5-EH1P4.6K-L	S5-EH1P5K-L	S5-EH1P6K-L
<b>Input DC (PV side)</b>					
Recommended max. PV power	4.8 kW	5.7 kW	8 kW	8 kW	8 kW
Max. input voltage	600 V				
Rated voltage	330 V				
Start-up voltage	120 V				
MPPT voltage range	90-520 V				
Max. input current	15 A / 15 A				
Max. short circuit current	22.5 A / 22.5 A				
MPPT number/Max. input strings number	2/2				
<b>Battery</b>					
Battery type	Li-ion / Lead-acid				
Battery voltage range	42 - 58 V				
Battery capacity	50 - 2000 Ah				
Max. charge / discharge power	3 kW				5 kW
Max. charge / discharge current	62.5 A				100 A
Communication	CAN				
<b>Output AC (Back-up)</b>					
Rated output power	3 kW			5 kW	
Max. apparent output power	4.5 kVA, 10SEC			7 kVA, 10SEC	
Back-up switch time	<20 ms				
Rated output voltage	1/N/PE, 220 V / 230 V				
Rated frequency	50 Hz				
Rated output current	14 A / 13.5 A			23 A / 22 A	
THDv (@linear load)	<2%				
<b>Input AC (Grid side)</b>					
Input voltage range	187-265 V				
Max. input current	20.5 A / 20 A	25 A / 23.5 A	31.5 A / 30 A	34.5 A / 33 A	34.5 A / 33 A
Frequency range	45-55 Hz				
<b>Output AC (Grid side)</b>					
Rated output power	3 kW	3.6 kW	4.6 kW	5 kW	6 kW
Rated apparent output power	3 kVA	3.6 kVA	4.6 kVA	5 kVA	6 kVA
Max. apparent output power	3 kVA	3.6 kVA	4.6 kVA	5 kVA	6 kVA
Operation phase	1/N/PE				
Rated grid voltage	220 V / 230 V				
Rated grid frequency	50 Hz				
Rated grid output current	13.7 A / 13.1 A	16.4 A / 15.7 A	20.9 A / 20 A	22.8 A / 21.7 A	27.3 A / 26.1 A
Max. output current	15 A / 14.5 A	18.5 A / 17.5 A	21 A / 20 A	25 A / 24 A	30 A / 29 A
Inrush current	65 A 10 us				
Max. output fault current	65 A 10 us				
Max. output overcurrent protection	15 A	18.5 A	21 A	25 A	30 A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)				
THDi	<2%				
<b>Efficiency</b>					
Max. efficiency	>97.1%				
EU efficiency	>96.5%				
<b>Protection</b>					
DC reverse-polarity protection	Yes				
Short circuit protection	Yes				
Output over current protection	Yes				
Surge protection	DC Type II / AC Type II				
Ground fault monitoring	Yes				
Integrated AFCI (DC arc-fault circuit protection)	Yes <sup>(1)</sup>				
Protection class/Over voltage category	I / II (PV), II (battery), III (AC)				
Integrated DC switch	Yes (PV2 Switch)				
<b>General Data</b>					
Dimensions (W*H*D)	333*505*249 mm				
Weight	18.3 kg				
Topology	Non-isolated				
Operating ambient temperature range	-25 ~ +60°C				
Ingress protection	IP65				
Cooling concept	Natural convection				
Max. operation altitude	3000 m				
Grid connection standard	G98 or G99, VDE-AR-N 4105/VDE V 0124, EN 50549-1, VDE 0126/UTE C 15/VFR:2019, RD 1699/RD 244/UNE 206006/UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, TOR, EIFS 2018.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, MEA, PEA				
Safety/EMC standard	IEC/EN 62109-1/-2, EN 61000-6-2/-3				
<b>Features</b>					
DC connection	MC4 connector				
AC connection	Quick connection plug				
Display	7.0"LCD color screen display				
Communication	RS485, Optional: Wi-Fi, GPRS				

(1) Activation required.