

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
Input DC (PV side)					
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		
Battery					
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		
Output AC (Back-up)					
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%		
Input AC (Grid side)					
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		
Output AC (Grid side)					
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%		
Efficiency					
Max. efficiency			>97.1%		
EU efficiency			>96.5%		
Protection					
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 ⁽¹⁾		
Protection class/Over voltage category			I / II (PV), II (battery), III (AC)		
Integrated DC switch			Yes (PV2 Switch)		
General Data					
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				
Features					
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.