

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, 230 V
Rated frequency					50 Hz
Rated output current	13.5 A				22 A
THDv (@linear load)					<2%
Input AC (Grid side)					
Input voltage range					187-265 V
Max. input current	20.5 A	25 A	31.5 A	34.5 A	34.5 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					230 V
Rated grid frequency					50 Hz
Rated grid output current	15 A	18.5 A	21 A	25 A	30 A
Max. output current	15 A	18.5 A	21 A	25 A	30 A
Inrush current					65 A 10 us
Max. output fault current					65 A 10 us
Max. output overcurrent protection	16 A	20 A	22 A	26 A	31 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
Country of manufacture					China

(1) Activation required.