

S5-EH1P(3-6)K-L

Solis Single Phase Low Voltage Energy Storage Inverters

Features:

- Max. string input current 15A
- Uninterrupted power supply, 20ms reaction
- Multiple working modes to make maximize self-consumption, increase benefit
- Higher charge-discharge efficiency, improving the economic benefits
- AFCI protection, proactively reduces fire risk
- Fanless design, long lifespan
- Compatible with lithium & lead-acid batteries, increased more choice in different markets
- Intelligent EMS function, improving battery's reliability
- 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

Models:

S5-EH1P3K-L / S5-EH1P3.6K-L

S5-EH1P4.6K-L / S5-EH1P5K-L

S5-EH1P6K-L



DATASHEET

S5-EH1P(3-6)K-L

Models	3K	3.6K	4.6K	5K	6K
Input DC (PV side)					
Recommended max. PV power	6 kW	7.2 kW	9.2 kW	10 kW	12 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, 10 s			7 kVA, 10 s	
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			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	17.9 kg			18.1 kg	
Topology			Non-isolated (PV), Isolated (Battery)		
Operating ambient temperature range			-25 ~ +60°C		
Ingress protection			IP65		
Cooling concept			Natural cooling		
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 display		
Communication			RS485, Optional: Wi-Fi, GPRS		
Country of manufacture			China		

(1) Activation required.