

S5-EH1P(3-6)K-L

Solis Energy Storage Inverters

>> Models:

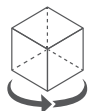
S5-EH1P3K-L

S5-EH1P3.6K-L

S5-EH1P4.6K-L

S5-EH1P5K-L

S5-EH1P6K-L



360° View



Features:

- Max. string input current **15A**
- Uninterrupted power supply, 20ms reaction
- 5kW backup power to support more important loads
- 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
- 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

DATASHEET**S5-EH1P(3-6)K-L**

Models	3K	3.6K	4.6K	5K	6K
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, 10 sec		7 kVA, 10 sec		
Back-up switch time	<20 ms				
Rated output voltage	1/N/PE, 220 V / 230 V				
Rated frequency	50 Hz / 60 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 / 55-65 Hz				
Output AC (Grid side)					
Rated output power	3 kW	3.6 kW	4.6 kW	5 kW	6 kW
Max. apparent output power	3.3 kVA	4 kVA	4.6 kVA	5.5 kVA	6.6 kVA
Operation phase	1/N/PE				
Rated grid voltage	220 V / 230 V				
Rated grid frequency	50 Hz / 60 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	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				
General Data					
Dimensions (W*H*D)	333*505*249 mm				
Weight	18.3 kg				
Topology	High frequency isolation (for battery)				
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, 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.



S5-EH1P(3-6)K-L

Compatible Battery List

Inverter	Type	Brand	Model	HMI Version				
S5-EH1P(3-6)K-L	Lithium	AOBOET	Uhome-LFP 5.8/7.5/10/12.5kWh/LV		V29			
			Uhome-NCA 6.8kWh/LV	Uhome-LFP 2400/5000				
		BYD	Battery-Box Premium LVS	Battery-Box Premium LVL		V35		
			Battery-Box Pro 2.5-10.0	Battery-Box Pro 13.8		V29		
		UZ energy (powered by CATL)	Power Lite L051100-A1	L051100-A		V37		
		CFE	CFE-5100			V41		
		Dyness	B3	B4850	B48100	BX48100	B51100	V25
			A48100	PowerDepot H2.5		PowerDepot H5.0		
			Powerbox F-2.5/F-5.0/F-7.5/F-10.0					
		Dowell	iPack C3.3		iPack C6.5		V3D	
		DMEGC	L01-48100		L02-48100		V46	
		Pytes	E-BOX-48100R	V5°/V5°α		ESS48-2U-L	V44	
		EXIDE	LIBM048050			V35		
		FOX	LV5200			V33		
		Freedom	Freedom Won Lite			V31		
		GSL ENERGY	GSL5000U			V33		
			GSL7000U		GSL10000U			
		GS ENERGY	GBL2.45K3		GBL5.8K3	V35		
		HD ENERGY	3U-4890		CM101607	V35		
		HIGHSTAR	HSD5870			V31		
		JiaWei	HOME e11			V31		
		KODAK	FL5.2			V33		
		LG Energy Solution	RESU3.3	RESU6.5	RESU10	RESU12	V27	
		PUREDRIVE	48V-100Ah			V35		
		PYLONTECH	Force L1 (CEI 0-21)	Force L2 (CEI 0-21)	Phantom-S (CEI0-21)		V29	
			US2000 (CEI 0-21)	US3000 (CEI 0-21)	US2000C (CEI0-21)			
			US3000C (CEI0-21)	US5000 (CEI 0-21)	UP5000			
			US2000B	US3000A	US2000 PLUS			
		PAND	Powerfree-S	Powerfree 5-U	Powerfree 12		V37	
		ROSEN	LFP48V100AH	LFP48V150AH	LFP48V200AH		V3D	
		SOLUNA	BATTERY MODULE 4K PACK		Soluna EOS 5K Pack		V31	
		Upower	Upower UE-H		Upower UE-I		V44	
		WECO	4K4PRO			V32		
			DUAL VOLTAGE 5K3 LV/HV		DUAL VOLTAGE 5K3-XP LV/HV			
		ZETARA POWER	51.2V-100Ah			V33		
SUNWODA	Atrix-5/10/15/20		SunESS-5/10/15/20		V44			
	B051100P03		B051100P02					
Lead carbon	Support							
Lead-acid	Support							

- Details correct at time of going to press.
- Installing a non-compatible battery will VOID the inverter warranty.

- The chart shows you which Solis inverter is compatible with which battery.