

S5-EH1P(4.6-6)K-L-UN

Solis Flexi-ONF



Solis Flexi-ONE Midi

S5-EH1P4.6K-L-UN S5-EH1P5K-L-UN S5-EH1P6K-L-UN



Solis Flexi-One Maxi

S5-EH1P4.6K-L-UN-EX S5-EH1P5K-L-UN-EX S5-EH1P6K-L-UN-EX



Solis Flexi-ONE Expansion Box

S5-EH-UN-EX



Uniquely Flexible

- ► Choose your own batteries from compatible manufacturers
- ► Quick installation
- ► Compatible battery capacity up to 20kW·h
- ▶ Built-in distribution block, removing inverter core without affecting backup loads



High performance

- ▶ 20ms switching time between on-grid mode and off-grid mode
- ► Grid output power up to 6kW
- ► Charge/Discharge current up to 100A
- ▶ PV input power up to 8kW, PV input current up to 15A
- ▶ 5kW backup power to support more important loads
- ► AC input current up to 34.5A, support backup load running and battery charging at the same time



Intelligent Integration

- ▶ Integrated backup bypass switch
- ► Integrated AFCI
- ▶ Integrated PV, grid and battery switches
- ▶ Dual protection with fuse and isolator



Multiple functions

- ▶ Integrated bluetooth supports APP commissioning
- ► Multiple working modes to maximize self-consumption
- ► Intelligent EMS function
- ▶ 24-hour energy management via SolisCloud
- ► Remote control & firmware upgrade



Datasheet							
Model Name	S5-EH1P4.6K-L-UN	S5-EH1P5K-L-UN	S5-EH1P6K-L-UN	S5-EH1P4.6K-L-UN-EX	S5-EH1P5K-L-UN-EX	S5-EH1P6K-L-UN-EX	
Battery Compatibility (to be continued)	1						
Nominal capacity range	2.4-10 kW·h 9.6-20 kW·h						
Pylontech US2000	1-3 pcs, 2.4 kW·h / 4.8 kW·h / 7.2 kW·h			4-6 pcs, 9.6 kW·h / 12 kW·h / 14.4 kW·h			
Pylontech US3000	1-2 pcs, 3.55 kW·h / 7.1 kW·h			3-4 pcs, 10.65 kW·h / 14.2 kW·h			
UZ energy L051100-A	1-2 pcs, 5.0 kW·h / 10 kW·h			3-4 pcs, 15.0 kW·h / 20 kW·h			
Dyness B4850	1-3 pcs, 2.4 kW·h / 4.8 kW·h / 7.2 kW·h			4-6 pcs, 9.6 kW·h / 12 kW·h / 14.4 kW·h			
LG Chem RESU 6.5	1 pcs, 6.5 kW·h			/			
LG Chem RESU 10	1 pcs, 10 kW·h			/			
Input DC (PV side)					·		
Recommended max. PV power	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						
Output AC (Grid side)			۷.	, <u>Z</u>			
Rated output power	4.6 kW	5 kW	6 kW	4.6 kW	5 kW	6 kW	
Max. apparent output power	4.6 kVA	5.5 kVA	6 kVA	4.6 kVA	5.5 kVA	6 kVA	
Rated grid voltage	4.0 KVA	3.5 KVA			3.3 KVA	ORVA	
Rated grid frequency	1/N/PE, 220 V / 230 V 50 Hz						
Rated grid output current	20.9 A / 20 A	22.8 A / 21.7 A	27.3 A / 26.1 A	20.9 A / 20 A	22.8 A / 21.7 A	27.3 A / 26.1 A	
Max. output current	21 A	25 A	27.3 A	21 A	25 A	27.3 A	
Power Factor						21.5 A	
THDi	>0.99 (0.8 leading - 0.8 lagging) <2%						
General data			~2	170			
Dimensions (H*W*D)	1146*691*375 mm 1786*691*375 mm						
	1146*691*375 mm						
Weight (without battery)	46 kg 58.3 kg						
Topology Operation temperature range	High frequency isolation (for battery)						
	-25 ~ +60°C (INV), system based on battery specification						
Ingress protection	IP54						
Cooling concept	Intelligent redundant fan-cooling						
Max. operation altitude	3000 m						
Grid connection standard	A\$4777.2:2015 IEC62109-1/-2, EN61000-6-2, EN61000-6-3						
Safety/EMC standard			IEC62109-1/-2, EN610	000-6-2, EN61000-6-3			
Model Name	All series		Model Name		Al	All series	
Output AC (Backup)	Autseries		Efficiency			7 M. Series	
Rated output power	5 kW		Max. efficiency			97.5%	
Max. apparent output power	7 kVA, 10 s		EU efficiency			96.8%	
Back-up switch time	<20 ms		MPPT efficiency			>99.9%	
Rated output voltage	1/N/PE, 220 V / 230 V		Protection			551575	
Rated frequency	50 Hz		Ground fault monitoring			Yes	
Rated output current	22.8 A / 21.7 A		Residual current mornitoring			Yes	
THDv (linear load)	<2%		Integrated AFCI (DC arc-fault circuit protection)		ın)	Yes (1)	
Input AC (Grid side)			DC reverse polarity protection		,	Yes	
Rated input voltage	230 V		Protection class/Over voltage category			I/II	
Max. input current	34.5 A		Intelligent temperature protection			Yes	
Rated frequency	50 Hz		Features			163	
Battery Charging/Discharging	3011		DC connection		MC4	connector	
Battery voltage range	42-58 V		AC connection			MC4 connector	
Max. charge / discharge power	5 kW				Quick Co	Quick connection plug	
Max. charge / discharge power	5 kW 100 A / 100 A		Display Communication			LED	
Communication	CAN / RS485					COM / DRM / RS485 / dry contact / Bluetooth (internal)	
Communication	CAN / RS	COF			Diactor		