

S6-EH1P(3.8-11.4)K-H-US

Solis Single Phase High Voltage Energy Storage Inverters

Features:

- Up to 4 MPPTs and 16A of DC input current allows for PV array design flexibility
- Optimization, module-level monitoring, and rapid shutdown options available
- External RSD, EPO signal and BYPASS switch are available
- UL 9540 certified with multiple different battery brands (LG, BYD, Pylontech. ect)
- Bluetooth connection to mobile phone, make the setting and operation easier
- Automatic UPS switching and up to 170% (130A) 300ms surge power back up overload capacity support industral air conditioner
- Intelligent AC coupling scheme, easily upgrade existing grid-connected systems
- Whole-home backup, generator integration, and load shading function with the new SolisHub
- Supports 1ph and 3ph flexible connection on both the Grid and Backup Port

Models:

S6-EH1P3.8K-H-US / S6-EH1P5K-H-US S6-EH1P7.6K-H-US / S6-EH1P9.9K-H-US S6-EH1P10K-H-US / S6-EH1P11.4K-H-US

Please consult the Ordering Guide for details on how to order the inverter with different accessories.





DATASHEET

S6-EH1P(3.8-11.4)K-H-US

Models	3.8K	5K	7.6K	9.9K	10K	11.4K
DC Input (PV)						
Max. input voltage			60	0 V		
Rated voltage			38	0 V		
Start-up voltage			80) V		
MPPT voltage range	80-520 V					
Max. input current per string	16 A					
Max. short circuit current per string	25.6 A					
Number of MPPTs/Number of strings per MPPT	2/1 3/1					
Energy Storage						
Battery type			Lithiu	m-ion		
Battery voltage range			120-	500 V		
Maximum charge/discharge current	25 A 50 A					
Battery communication	CAN/RS485					
Number of batteries per inverter			- /	npatibility Sheet		
AC Output (Grid)			See Dattery Cor	працыпту эпеет		
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Rated output power	3.8 kW	5 kW	7.6 kW	9990 W	10 kW	11.4 kW
Max. apparent output power	3.8 kVA	5 kVA	7.6 kVA	9990 VA	10 kVA	11.4 kVA
Rated output voltage			24	0 V		
Rated frequency			60	Hz		
Rated output current	15.8 A	20.8 A	31.7 A	41.7 A	41.7 A	47.5 A
Max. output current	15.8 A	20.8 A	31.7 A	41.7 A	41.7 A	47.5 A
	13.0 A	20.0 A			41.1 A	41.3 A
THDi			<	3%		
AC Input (Grid)						
nput voltage range				264 V		
Max. input current	23.8 A	31.2 A	47.6 A	62.6 A	62.6 A	71.3 A
requency range	58.8-61.2 Hz					
AC Output (Backup and Off-grid)			00.0			
	3.8 kW	5 kW	7.6 kW	0000 W/	10 kW	11.4 kW
Rated output power				9990 W		
Max. apparent output power	6.1 kVA, 10 sec	8 kVA, 10 sec		16 kVA, 10 sec	16 kVA, 10 sec	18.2 kVA, 10 se
Back-up switch time			<10	ms		
Phase Power	240 V Split-Phase					
Rated output voltage (L1-L2)	240 V					
AC output voltage range	211-264 V					
Rated grid frequency	60 Hz					
9 1						
Frequency range				5 Hz		
Rated AC output current	15.8 A	20.8 A	31.7 A	41.7 A	41.7 A	47.5 A
Max. output overcurrent protection, 10 sec	25.4 A	33.3 A	50.7 A	66.7 A	66.7 A	76 A
Max. allowable phase imbalance			10	0%		
Backup support configurations	Whole-home and dedicated loads					
Power factor				ng - 0.8 lagging)		
THDv (@linear load)				3%		
· -			~	170		
Efficiency					-0.0	
PV Max. efficiency		0%		97.		
PV CEC efficiency	96.	5%	97.0%			
Battery charged by PV Max. efficiency	98.5%					
Battery charged/discharged to AC Max. efficiency			97.	0%		
Protection						
Ground fault detection			V	2S		
Residual (leakage) current detection	Yes					
Integrated AFCI (DC arc-fault circuit protection)	Yes					
DC reverse-polarity protection	Yes (PV only)					
Manual inverter bypass switch	Yes					
Rapid Shutdown NEC 2017	Integrated SunSpec-certified Transmitter					
Compatible RSD Receivers	See MLRSD Compatibility Sheet					
Protection class/Over voltage category	See MLRSD Compatibility sheet					
~ ~ ~			I/	11		
General Data		/+00*75****		00.05***	/F00+7F-+	
Dimensions (W*H*D)	19.21*28.35*8.66 in (490*720*220 mm) 22.05*29.53*8.66 in (560*750*220 mm)					
Weight	52.43 lbs lbs (23.78 kgs) 71.74 lbs (32.54 kgs)					
Topology	Transformerless					
Self-consumption (night)				0 W		
Operation temperature range	-13 °F to 140 °F (-25°C to 60°C)					
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Ingress protection	TYPE 4X					
Cooling method	Natural convection					
Mounting type	Wall Bracket					
Max. operation altitude	13,120 ft (4000 m)					
Compliance	UL 1741, UL 1741 SA, UL 1741 SB, IEEE1547-2018&2020, UL 1699B, UL 1998, California Rule 21, NEC 690.12-2020, CAN/CSA C22.2107.1-1, FCC Part 15 Class B					
Generator support		, , , , , , , , , , , , , , , , , , ,		(with a Solis Hub)	2.1.2.5 O.000 D	
			1es, up to 25 KW	(with a Solis Hub)		
Features						
DC connection	1 in. knockouts for conduit (x2) on the side and bottom; Spring clamp terminals					
AC connection	1.5 in. knockouts for conduit (x3) on the side and bottom; Spring clamp terminals					
nterface				tooth/Mobile applica		
Monitoring platform				I sharing available up		
Revenue Grade Meter		Jonstioud			.orequesty	
				I C12.20 option		
Communication	RS485, Cellular, Wi-Fi, Optional: LAN See the MLRSD Compatibility Sheet					
Integrated RSD Transmitter Brands						