solis

GINLONG TECHNOLOGIES CO.,LTD.

S6-EH3P(3-10)K-H-EU

Solis Energy Storage Inverters

Features:

- Integrated 2/3/4 MPPTs for multiple array orientations
- Industry leading 50A/10kW max charge/discharge rating
- Automatic UPS switching
- Supports Peak Shaving Mode
- Pre-made Battery, Meter and CAN cabling to reduce installation time
- Supports Unbalanced and Half-Wave Loads on both the Grid and Backup Port
- Compatible with multiple brands of lithium battery models
- Increased battery protection and operation features to extend battery life

Models:

S6-EH3P3K-H-EU / S6-EH3P4K-H-EU

S6-EH3P5K-H-EU / S6-EH3P6K-H-EU

S6-EH3P8K-H-EU / S6-EH3P10K-H-EU

360° View

• Monitoring Portal – www.soliscloud.com or SolisCloud App • Compatible Batteries – Check online at www.solisinverters.com

DATASHEET

S6-EH3P(3-10)K-H-EU

Models	3K	4K	5K	6K	8K	10K
Input DC (PV side)						
Recommended max. PV power	4.8 kW	6.4 kW	8 kW	9.6 kW	12.8 kW	16 kW
Max. input voltage	1000 V					
Rated voltage	600 V					
Start-up voltage	160 V					
MPPT voltage range	200-850 V					
Max. input current	16 A / 16 A		16 A / 16 A / 16 A		16 A / 16 A / 16 A / 16 A	
Max. short circuit current	24 A / 24 A		24 A / 24 A / 24 A		24 A / 24 A / 24 A / 24 A	
MPPT number/Max. input strings number	2/2		3/3		4/4	
Battery						
Battery type	Li-ion					
Battery voltage range	120-600 V					
Max. charge / discharge power	3 kW	4 kW	5 kW	6 kW	8 kW	10 kW
Max. charge / discharge current	25 A				50 A	
Communication	CAN/RS485					
Output AC (Grid side)						
Rated output power	3 kW	4 kW	5 kW	6 kW	8 kW	10 kW
Max. apparent output power	3.3 kVA	4.4 kVA	5.5 kVA	6.6 kVA	8.8 kVA	11 kVA
Rated grid voltage	3/N/PE, 380 V / 400 V					
Rated grid frequency	50 Hz / 60 Hz					
Rated grid output current	4.6 A / 4.3 A	6.1 A / 5.8 A	7.6 A / 7.2 A	9.1 A / 8.7 A	12.2 A / 11.5 A	15.2 A / 14.4 A
Max. output current	5.1 A / 4.7 A	6.7 A / 6.4A	8.4 A / 7.9 A	10 A / 9.6 A	13.4 A / 12.7 A	16.7 A / 15.8 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)					
THDi	<3%					
Input AC (Grid side)						
Max. input power	4.5 kW	6 kW	7.5 kW	9 kW	12 kW	15 kW
Rated input current	6.8 A	9.1 A	11.4 A	13.8 A	18.2 A	22.8 A
Rated input voltage	3/N/PE, 380 V / 400 V					
Rated input frequency	50 Hz / 60 Hz					
Output AC (Back-up)						
Rated output power	3 kW	4 kW	5 kW	6 kW	8 kW	10 kW
Max. apparent output power	4.8 kVA, 60 sec	6.4 kVA, 60 sec	8 kVA, 60 sec	9.6 kVA, 60 sec	12.8 kVA, 60 sec	16 kVA, 60 sec
Back-up switch time	<10 ms					
Rated output voltage	3/N/PE, 380 V / 400 V					
Rated frequency	50 Hz / 60 Hz					
Rated output current	4.6 A / 4.3 A	6.1 A / 5.8 A	7.6 A / 7.2 A	9.1 A / 8.7 A	12.2 A / 11.5 A	15.2 A / 14.4 A
THDv (@linear load)	<2%					
Efficiency						
Max. efficiency	97.7%	97.7%	97.9%	97.9%	98.0%	98.0%
EU efficiency	95.5%	96.0%	96.8%	97.1%	97.4%	97.5%
BAT charged by PV Max. efficiency	96.0%	96.6%	98.4%	98.5%	98.2%	98.3%
BAT charged/discharged to AC Max. efficiency	97.0%	97.3%	97.3%	97.3%	97.5%	97.5%
Protection						
Anti-islanding protection	Yes					
Output over current protection	Yes					
Short circuit protection	Yes					
Integrated AFCI (DC arc-fault circuit protection)	Yes (1)					
Integrated DC switch	Yes					
DC reverse-polarity protection	Yes					
PV over voltage protection	Yes					
Battery reverse protection	Yes					
General Data						
Dimensions (W*H*D)	600*500*230 mm					
Weight	32.6 kg					
Topology	Transformerless					
Self-consumption (night)	<25 W					
Operating ambient temperature range	-25 ~ +60°C					
Ingress protection	IP66					
Cooling concept	Natural convection					
Max. operation altitude	4000 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, IEC/EN 61000-6-1/-3					
Features						
PV connection	MC4 connector					
Battery connnection	Quick connection plug					
AC connection	Quick connection plug					
Display	LED + Bluetooth + APP					
Communication	CAN, RS485, Ethernet, Optional: Wi-Fi, Cellular, LAN					

(1) Activation required.