GINLONG TECHNOLOGIES CO.,LTD.

S6-EH3P(30-50)K-H-ND

Solis Three Phase High Voltage Energy Storage Inverters

Applicable only to Nordic countries

Features:

- 2 seconds of 160% overload capability
- Supports a maximum input current of 20 A, making it ideal for all high-power PV modules from any brand
- Battery real-time monitoring , remote upgrade, and battery healing function to prolong battery life
- Supports Peakshaving features in "self-use" and "generator" modes
- Supports Unbalanced and Half-Wave Loads on both the Grid and Backup Port
- A wide battery voltage range accommodates the prevalent high-voltage lithium batteries found in the market
- Battery charging/discharging current 140A/70A+70A, suitable for 280Ah cell standard 0.5C application condition
- Support 200% DC/AC ratio, make full use of PV charging, provide long backup hours

Models:

S6-EH3P30K-H-ND

S6-EH3P40K-H-ND

S6-EH3P50K-H-ND

DATASHEET

S6-EH3P(30-50)K-H-ND

Models	30K	40K	50K
Input DC (PV side)			
Recommended max. PV array size	60 kW	80 kW	100 kW
Max. usable PV input power	60 kW	80 kW	96 kW
Max. input voltage		1000 V	
Rated voltage		600 V	
Start-up voltage		180 V	
MPPT voltage range		150-850 V	
Max. input current	3*40 A	4*40 A	
Max. short circuit current	3*60 A	4*60 A	
MPPT number/Max. input strings number	3/6	4/8	
Battery			
Battery type		Li-ion	
Battery voltage range		150-800 V	
Max. charge / discharge power	33 kW	44 kW	55 kW
Max. charge / discharge current		70 A*2 (1)	
No. of battery inputs		2	
Max. charge / discharge power of each input	33 kW	35 kW	35 kW
Communication		CAN/RS485	
Output AC (Grid side)			
Rated output power	30 kW	40 kW	50 kW
Max. apparent output power	30 kVA	40 kVA	50 kVA
Rated grid voltage		3/N/PE, 220 V / 380 V 3/N/PE, 230 V / 400 V	
Rated grid frequency		50 Hz / 60 Hz	
Rated grid output current	45.6 A / 43.3 A	60.8 A / 57.7 A	76 A / 72.2 A
Max. output current	45.6 A / 43.3 A	60.8 A / 57.7 A	76 A / 72.2 A
Power factor		>0.99 (0.8 leading - 0.8 lagging)	
THDi		< 3%	
Input AC (Grid side)			
Max. AC passthrough current	91.2 A / 86.6 A	121.6 A / 115.4 A	152 A / 144.4 A
Rated input voltage		3/N/PE, 220 V / 380 V 3/N/PE, 230 V / 400 V	
Rated input frequency		50 Hz / 60 Hz	
Input Generator			
Max. input power	30 kW	40 kW	50 kW
Rated input current	45.6 A / 43.3 A	60.8 A / 57.7 A	76 A / 72.2 A
Rated input voltage		3/N/PE, 220 V / 380 V 3/N/PE, 230 V / 400 V	
Rated input frequency		50 Hz / 60 Hz	
Output AC (Back-up)			
Rated output power	30 kW	40 kW	50 kW
Max. apparent output power		1.6 times of rated power, 2 s	
Back-up switch time		< 10 ms	
Rated output voltage		3/N/PE, 220 V / 380 V 3/N/PE, 230 V / 400 V	
Rated frequency		50 Hz / 60 Hz	
Rated output current	45.6 A / 43.3 A	60.8 A / 57.7 A	76 A / 72.2 A
THDv (@linear load)			
Efficiency			
Max. efficiency		97.8%	
EU efficiency		97.4%	
BAT charged by PV Max. efficiency		98.5%	
BAT charged/discharged to AC Max. efficiency		97.5%	
Protection			
Anti-islanding protection		Yes	
Output over current protection		Yes	
Short circuit protection		Yes	
Integrated DC switch		Yes	
DC reverse-polarity protection		Yes	
Surge protection		DC Type II / AC Type II	
Integrated AFCI (DC arc-fault circuit protection)		Yes (2)	
General Data			
Dimensions (W*H*D)		530*880*290 mm	
Weight		73 kg	
Topology		Transformerless	
Self-consumption (night)		<35 W	
Operating ambient temperature range		-25 ~ +60°C	
Relative humidity		0-95%	
Ingress protection		IP66	
Cooling concept		Intelligent redundant fan-cooling	
Max. operation altitude		4000 m	
Grid connection standard		G99, VDE-AR-N 4105 / VDE V 0124, EN 50549-1/EN 50549-10, VDE 0126 / UTE C 15/VFR:2019, NTS 631/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,PORTARIA Nº 140, DE 21 DE MARÇO DE 2022	
Safety/EMC standard		IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4, EN 55011	
Features			
PV connection		MC4 Quick connection plug	
Battery connection		Terminal connector	
AC connection		Terminal Block	
Display		LED + Bluetooth + APP	
Communication		CAN, RS485, Ethernet, Optional: Wi-Fi, Cellular, LAN	

(1) Supporting parallel 140A input. (2) Activation required.