



GINLONG TECHNOLOGIES CO.,LTD.

## S6-EH3P(12-20)K-H

# Solis Three Phase High Voltage Energy Storage Inverters

### Features:

- Integrated 4 MPPTs for multiple array orientations
- Up to 50A max charge/discharge current
- String current up to 20A, perfectly match large current modules
- 10 second 200% surge power backup overload capability
- Supports Max 6 pcs in parallel
- Supports Unbalanced and Half-Wave Loads on both the Grid and Backup Port
- Supports peak shaving control in both "self-use" and "generator" mode
- 6 customisable charge/discharge time settings
- Automatic UPS switching
- Intelligent AC coupling scheme, easily upgrade existing grid-connected systems

### Models:

S6-EH3P12K-H

S6-EH3P15K-H

S6-EH3P20K-H



## DATASHEET

## S6-EH3P(12-20)K-H

Models	12K	15K	20K
<b>Input DC (PV side)</b>			
Recommended max. PV power	19.2 kW	24 kW	32 kW
Max. input voltage	1000 V		
Rated voltage	600 V		
Start-up voltage	160 V		
MPPT voltage range	200-850 V		
Max. input current	20 A / 20 A / 20 A / 20 A		
Max. short circuit current	30 A / 30 A / 30 A / 30 A		
Max. input power per MPPT	9 kW		
MPPT number/Max. input strings number	4/4		
<b>Battery</b>			
Battery type	Li-ion		
Battery voltage range	120-800 V		
Max. charge / discharge power	12 kW	15 kW	20 kW
Max. charge / discharge current	50 A		
Communication	CAN/RS485		
<b>Output AC (Grid side)</b>			
Rated output power	12 kW	15 kW	20 kW
Max. apparent output power	12 kVA	15 kVA	20 kVA
Rated grid voltage	3/N/PE, 380 V / 400 V		
Rated grid frequency	50 Hz / 60 Hz		
Rated grid output current	18.2 A / 17.3 A	22.8 A / 21.7 A	30.4 A / 28.9 A
Max. output current	18.2 A / 17.3 A	22.8 A / 21.7 A	30.4 A / 28.9 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)		
THDi	<3%		
<b>Input AC (Grid side)</b>			
Max. input power	18 kW	22.5 kW	30 kW
Rated input current	27.3 A	34.2 A	45.6 A
Rated input voltage	3/N/PE, 380 V / 400 V		
Rated input frequency	50 Hz / 60 Hz		
<b>Output AC (Back-up)</b>			
Rated output power	12 kW	15 kW	20 kW
Max. apparent output power	2 times of rated power, 10 S		
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	18.2 A / 17.3 A	22.8 A / 21.7 A	30.4 A / 28.9 A
THDv (@linear load)	<3%		
<b>Input Generator</b>			
Max. input power	12 kW	15 kW	20 kW
Max. input current	18.2 A / 17.3 A	22.8 A / 21.7 A	30.4 A / 28.9 A
Rated input frequency	50 Hz / 60 Hz		
<b>Efficiency</b>			
Max. efficiency	98.5%		
EU efficiency	97.5%		
BAT charged by PV Max. efficiency	98.5%		
BAT charged/discharged to AC Max. efficiency	97.5%		
<b>Protection</b>			
Anti-islanding protection	Yes		
Output over current protection	Yes		
Short circuit protection	Yes		
Integrated AFCI (DC arc-fault circuit protection)	Yes <sup>(1)</sup>		
Integrated DC switch	Yes		
DC reverse-polarity protection	Yes		
PV over voltage protection	Yes		
Battery reverse protection	Yes		
<b>General Data</b>			
Dimensions (W*H*D)	563*546*235 mm		
Weight	TBD		
Topology	Transformerless		
Self-consumption (night)	<25 W		
Operating ambient temperature range	-25 ~ +60°C		
Relative humidity	0-95%		
Ingress protection	IP66		
Cooling concept	Intelligent redundant fan-cooling		
Max. operation altitude	2000 m		
Grid connection standard	EN 50549-1, VDE4105 CEI 0-21, CEI 0-16, NC-RFG TypeB, NRS 097-2-1 ED 2.1		
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-3, IEC 61000-2		
<b>Features</b>			
PV connection	MC4 connector		
Battery connection	OT terminal		
AC connection	OT terminal		
Display	LED + Bluetooth + APP		
Communication	CAN, RS485, Ethernet, Optional: Wi-Fi, Cellular, LAN		

(1) Activation required.