

## S6-EH3P(8-12)K-LV-ND-H

# Solis Three Phase High Voltage Energy Storage Inverters

Applicable only to Nordic countries

### Features:

- Generator-compatible to extend backup duration during grid power outage
- Supports dual backup ports for intelligent control of critical and non-critical loads
- SG heat pump compatibility
- Supports a maximum input current of 20A, making it ideal for all high-power PV modules of any brand
- Supports AC voltage detection of grid and generator output to prevent damage to generators from reverse current from the grid
- Supports peak shaving features
- Supports Unbalanced and Half-Wave Loads on both the Grid and Backup Port

### Models:

S6-EH3P8K-LV-ND-H

S6-EH3P10K-LV-ND-H

S6-EH3P12K-LV-ND-H



# DATASHEET

## S6-EH3P(8-12)K-LV-ND-H

Models	8K	10K	12K
<b>Input DC (PV side)</b>			
Recommended max. PV array size	16 kW	20 kW	24 kW
Max. usable PV input power	12.8 kW	16 kW	19.2 kW
Max. input voltage		1000 V	
Rated voltage		600 V	
Start-up voltage		160 V	
MPPT voltage range		200 - 850 V	
Max. input current		4 × 16 A	4 × 20 A
Max. short circuit current		4 × 24 A	4 × 30 A
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	8 kW	10 kW	12 kW
Max. charge / discharge current		50 A	
Communication		CAN / RS485	
<b>Output AC (Grid side)</b>			
Rated output power	8 kW	10 kW	12 kW
Max. apparent output power	8 kVA	10 kVA	12 kVA
Rated grid voltage		3/(N)/PE, 133 V / 230 V	
Rated grid frequency		50 Hz / 60 Hz	
Rated grid output current	20.1 A	25.1 A	30.1 A
Max. output current	20.1 A	25.1 A	30.1 A
Power factor		> 0.99 (0.8 leading - 0.8 lagging)	
THDi		< 3%	
<b>Input AC (Grid side)</b>			
Input voltage range		184 - 265 V	
Max. input current	30.1 A	37.7 A	45.2 A
Rated grid frequency		50 Hz / 60 Hz	
Frequency range		45 - 55 Hz / 55 - 65 Hz	
<b>Input Generator</b>			
Max. input power	8 kW	10 kW	12 kW
Max. input current	20.1 A	25.1 A	30.1 A
Rated input frequency		50 Hz / 60 Hz	
<b>Output AC (Back-up)</b>			
Rated output power	8 kW	10 kW	12 kW
Max. apparent output power		1.6 times of rated power, 10 s	
Back-up switch time		< 10 ms	
Rated output voltage		3/(N)/PE, 133 V / 230 V	
Rated frequency		50 Hz / 60 Hz	
Rated output current	20.1 A	25.1 A	30.1 A
THDv (@linear load)		< 2%	
<b>Efficiency</b>			
Max. efficiency		96.70%	
EU efficiency		96.39%	
BAT charged by PV max. efficiency		96.23%	
BAT charged / discharged to AC max. efficiency		96.43%	
<b>Protection</b>			
Anti-islanding protection		Yes	
Output over current protection		Yes	
Short circuit protection		Yes	
Integrated AFCI 2.0		Optional	
Integrated DC switch		Yes	
DC reverse-polarity protection		Yes	
PV over voltage protection		Yes	
Battery reverse protection		Yes	
<b>General Data</b>			
Max. allowable phase imbalance (grid & back-up)		100%	
Max. power per phase (grid & back-up)		40% rated power	
Dimensions (W × H × D)		563 × 546 × 235 mm	
Weight		32.6 kg	
Topology		Transformerless	
Self-consumption (night)		< 25 W	
Operating ambient temperature range		-25 ~ +60°C	
Relative humidity		0 - 95%	
Ingress protection		IP66	
Noise emission (typical)		< 65 dB(A)	
Cooling concept		Intelligent fan-cooling	
Max. operation altitude		4000 m	
Grid connection standard		EN 50549-1/-10, VDE4105, REN342	
Safety / EMC standard		IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4	
<b>Features</b>			
PV connection		MC4 connector	
Battery connection		OT terminal	
AC connection		OT terminal	
Display		LED indicator & Bluetooth + APP	
Communication		CAN, RS485, Ethernet, Optional: Wi-Fi, Cellular, LAN	