

## S6-EH3P30K-H-LV

# Solis Three Phase Low Voltage Energy Storage Inverters

### Features:

- 2 seconds of 160% overload capability
- Supports a maximum input current of 20A, making it ideal for all high-power PV modules of any brand
- Real-time battery monitoring, remote upgrade, and battery healing function to prolong battery life
- Supports peak shaving 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
- Supports 200% DC/AC ratio and makes full use of PV charging, providing a long backup

### Models:

S6-EH3P30K-H-LV



# DATASHEET

# S6-EH3P30K-H-LV

Models	30K-LV
<b>Input DC (PV side)</b>	
Recommended max. PV array size	60 kW
Max. usable PV input power	60 kW
Max. input voltage	1000 V
Rated voltage	600 V
Start-up voltage	180 V
MPPT voltage range	150 - 850 V
Max. input current	40 A / 40 A / 40 A
Max. short circuit current	60 A / 60 A / 60 A
MPPT number / Max. input strings number	3 / 6
<b>Battery</b>	
Battery type	Li-ion
Battery voltage range	150 - 800 V
Max. charge / discharge power	33 kW
Max. charge / discharge current	70 A × 2 <sup>(1)</sup>
No. of battery inputs	2
Max. charge / discharge power of each input	33 kW
Communication	CAN / RS485
<b>Output AC (Grid side)</b>	
Rated output power	30 kW
Max. apparent output power	30 kVA
Rated grid voltage	3/(N)/PE, 220 V; 3/(N)/PE, 230 V
Rated grid frequency	50 Hz / 60 Hz
Rated grid output current	78.7 A / 75.3 A
Max. output current	78.7 A / 75.3 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)
THDi	< 3%
<b>Input AC (Grid side)</b>	
Max. AC passthrough current	152 A / 152 A
Rated input voltage	3/(N)/PE, 220 V; 3/(N)/PE, 230 V
Rated input frequency	50 Hz / 60 Hz
<b>Input Generator</b>	
Max. input power	30 kW
Rated input current	78.7 A / 75.3 A
Rated input voltage	3/(N)/PE, 220 V; 3/(N)/PE, 230 V
Rated input frequency	50 Hz / 60 Hz
<b>Output AC (Back-up)</b>	
Rated output power	30 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; 3/(N)/PE, 230 V
Rated frequency	50 Hz / 60 Hz
Rated output current	78.7 A / 75.3 A
THDv (@linear load)	< 2%
<b>Efficiency</b>	
Max. efficiency	96.3%
EU efficiency	95.5%
BAT charged by PV max. efficiency	97.4%
BAT charged / discharged to AC max. efficiency	95.8%
<b>Protection</b>	
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 2.0	Optional
<b>General Data</b>	
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 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 N° 140, DE 21 DE MARÇO DE 2022
Safety / EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4, EN 55011
<b>Features</b>	
PV connection	MC4 Quick connection plug
Battery connection	Terminal connector
AC connection	Terminal Block
Display	7.0" LCD display & Bluetooth + APP
Communication	CAN, RS485, Ethernet, Optional: Wi-Fi, Cellular, LAN

(1) Supporting parallel 140A input.