



solis

20th
ANNIVERSARY



SOLARATOR SERIES

Experience Uninterrupted Power with Solis Energy Storage Inverters

S6-EH3P30K-H-LV

Three Phase | High Voltage

6 Leading Features

- Supports flexible PV connection through DC and AC coupling for retrofitting and expanding
- Supports battery reserve function in multiple scenarios
- Smart Load Prioritizing – Extending support for critical loads
- SmartLoad/GEN/INV port - Flexible connection of multiple energy sources such as Grid-tied inverter, diesel generator, wind turbines, etc.
- Seamless on grid/off grid switching time <10ms
- Support max 10 pcs in parallel mode, >6 pcs recommend Solis power distribution cabinet

8 Unique Features

- Usable PV power up to 200% inverter rated power, to improve the utilization of PV generation
- Supports max 20A PV input current, perfect match for high power PV modules
- Compatible with 100-280Ah battery modules
- Supports faster charging with battery current up to 140A
- Powerful backup overload capability – 160% overload
- Supports a wide power range of generator connections from 6kVA to 30kVA
- Supports 2 independent battery connections for flexible configuration
- 7-inch large screen uses U.S.-made ZEITLER industrial-grade components

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DATASHEET

S6-EH3P30K-H-LV

Models	30K
Input DC (PV side)	
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
Battery	
Battery type	Li-ion
Battery voltage range	150 - 800 V
Max. charge / discharge power	33 kW
Max. charge / discharge current	70 A × 2 ⁽¹⁾
Number of battery ports	2
Max. charge / discharge power of each input	33 kW
Communication	CAN / RS485
Output AC (Grid side)	
Rated output power	30 kW
Max. apparent output power	30 kVA
Rated grid voltage	3/(N)/PE, 220 V, 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%
Input AC (Grid side)	
Max. AC passthrough current	152 A / 152 A
Rated input voltage	3/(N)/PE, 220 V, 230 V
Rated input frequency	50 Hz / 60 Hz
Input Generator	
Max. input power	30 kW
Rated input current	78.7 A / 75.3 A
Rated input voltage	3/(N)/PE, 220 V, 230 V
Rated input frequency	50 Hz / 60 Hz
Output AC (Back-up)	
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, 230 V
Rated frequency	50 Hz / 60 Hz
Rated output current	78.7 A / 75.3 A
THDv (@linear load)	< 2%
Efficiency	
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%
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 2.0	Optional
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 - 100%
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 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	7.0" LCD display & Bluetooth + APP
Communication	CAN, RS485, Ethernet, Optional: Wi-Fi, Cellular, LAN

(1) Supporting parallel 140A input.