



solis

20th
ANNIVERSARY

Solis Solarator Series

Experience Uninterrupted Power with Solis Energy Storage Inverters

Energy Storage Inverters

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

Three Phase | High Voltage



Smart Energy Management

- AI intelligently manages charging and discharging based on TOU (Time-of-Use) tariffs
- Seamless integration with VPP and EMS platforms for enhanced energy optimization
- Built-in control for SG-ready heat pumps



High Performance

- Supports three-phase unbalanced output, allowing up to 40% of rated inverter power per phase
- 160% PV input capacity to maximize solar energy utilization
- Switching time < 10ms



Flexible & Scalable

- Compatible with mainstream lithium batteries
- Easily expand system capacity using parallel connections and AC coupling



Simple & Fast Configuration

- Bluetooth app support for quick and easy setup

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DATASHEET

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

Models	8K	10K	12K
Input DC (PV side)			
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	
Battery			
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	
Output AC (Grid side)			
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%	
Input AC (Grid side)			
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	
Input Generator			
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	
Output AC (Back-up)			
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%	
Efficiency			
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%	
Protection			
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	
General Data			
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 - 100%	
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	
Features			
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	