



solis

20th
ANNIVERSARY



SOLARATOR SERIES

Experience Uninterrupted Power with Solis Energy Storage Inverters

S6-EH3P(15-30)K-H-LV-ND

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

7 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

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DATASHEET

S6-EH3P(15-30)K-H-LV-ND

Models	15K	20K	25K	30K
Input DC (PV side)				
Recommended max. PV array size	30 kW	40 kW	50 kW	60 kW
Max. usable PV input power	30 kW	40 kW	50 kW	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	16.5 kW	22 kW	27.5 kW	33 kW
Max. charge / discharge current			70 A × 2 ⁽¹⁾	
Number of battery ports			2	
Max. charge / discharge power of each input	16.5 kW	22 kW	27.5 kW	33kW
Communication			CAN / RS485	
Output AC (Grid side)				
Rated output power	15 kW	20 kW	25 kW	30 kW
Max. apparent output power	15 kW	20 kW	25 kW	30 kVA
Rated grid voltage			3/(N)/PE, 220 V, 230 V	
Rated grid frequency			50 Hz / 60 Hz	
Rated grid output current	39.4 A / 37.7 A	52.5 A / 50.2 A	65.6 A / 62.8 A	78.7 A / 75.3 A
Max. output current	39.4 A / 37.7 A	52.5 A / 50.2 A	65.6 A / 62.8 A	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	78.8 A / 75.4 A	105 A / 100.4 A	131.2 A / 125.6 A	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	15 kW	20 kW	25 kW	30 kW
Rated input current	39.4 A / 37.7 A	52.5 A / 50.2 A	65.6 A / 62.8 A	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	15 kW	20 kW	25 kW	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	39.4 A / 37.7 A	52.5 A / 50.2 A	65.6 A / 62.8 A	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	LED indicator & Bluetooth + APP			
Communication	CAN, RS485, Ethernet, Optional: Wi-Fi, Cellular, LAN			

(1) Supporting parallel 140A input.