



15-30K

SOLARATOR SERIES

Experience Uninterrupted Power with Solis Energy Storage Inverters

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

Three Phase | High Voltage

8 Unique Advantages

- ★ Supports up to 2x rated PV input, maximizing solar energy utilization
- ★ Supports a maximum string input current of 20A, ensuring compatibility with high-power PV modules
- ★ Compatible with 100–280Ah battery modules, reducing overall system costs
- ★ Supports fast battery charging with a maximum charging current of 140A
- ★ Two independent battery ports for flexible configurations and easy capacity expansion
- ★ Delivers 160% overload for 2s in off-grid mode, ensuring stable startup of heavy loads
- ★ Supports generator input across a wide range (20%–100% of rated power), reducing investment costs
- ★ SolisCloud: Smart remote control, AI optimisation, and instant troubleshooting - all in one platform

6 Leading Advantages

- Supports both DC and AC coupling, for flexible retrofits and system expansions
- Ensures reliable backup power across diverse scenarios through battery reserve management
- Extends supply time for critical loads with intelligent load prioritization
- Offers a versatile three-in-one interface for seamless integration of on-grid PV, wind power, and diesel generators
- Achieves on- and off-grid transitions in less than 10ms, ensuring an uninterrupted power supply
- Supports multi-unit parallel operation up to 300kW (Solis STS cabinet recommended for systems over 6 units)

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DATASHEET

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/MFR: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.