

60-75K

SOLARATOR SERIES

Experience Uninterrupted Power with Solis Energy Storage Inverters

S6-EH3P(60-75)K10-LV-YD-H

Three Phase | High Voltage



12 Unique Advantages

- ★ Supports up to 2x rated PV input, maximizing solar energy utilization
- ★ Supports a maximum string input current of 21A, ensuring compatibility with high-power PV modules
- ★ Compatible with 100-314Ah battery modules, reducing overall system costs
- ★ Supports fast battery charging with a maximum charging current of 200A
- ★ Two independent battery ports for flexible configurations and easy capacity expansion
- ★ Delivers 200% overload for 200ms in off-grid mode, ensuring stable startup of heavy loads
- ★ Offers flexible control for weak grid and genset-hybrid scenarios, reducing investment costs
- ★ SolisCloud: Smart remote control, AI optimisation, and instant troubleshooting - all in one platform
- ★ Integrates PV and storage for demand management and anti-reverse flow functions
- ★ Provides dynamic reactive power compensation to improve grid power factor and reduce reactive power charges
- ★ Utility bypass function allows direct grid supply to backup loads
- ★ Patented cooling technology ensures reliable operation even under high-temperature conditions

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 750kW (Solis STS cabinet recommended for systems over 6 units)

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DATASHEET

Models	60K	75K
Input DC (PV side)		
Recommended max. PV array size	120 kW	150 kW
Max. usable PV input power	120 kW	150 kW
Max. input voltage		1000 V
Rated voltage		600 V
Start-up voltage		180 V
MPPT voltage range		150 - 950 V
Max. input current		10 × 42 A
Max. short circuit current		10 × 60 A
MPPT number / Max. input strings number		10 / 20
Battery		
Battery type		Li-ion
Battery voltage range		300 - 950 V
Max. charge / discharge current		200 A / 100 A + 100 A
Number of battery ports		2
Max. charge / discharge current of each port		100 A
Communication		CAN / RS485
Output AC (Grid side)		
Rated output power	60 kW	75 kW
Max. apparent output power	60 kVA	75 kVA
Rated grid voltage		3/(N)/PE, 220 V / 230 V
Rated grid frequency		50 Hz / 60 Hz
Rated grid output current	157.5 A / 150.6 A	196.8 A / 188.2 A
Power factor		> 0.99 (0.8 leading - 0.8 lagging)
THDi		< 3%
Input AC (Grid side)		
Max. input current		250 A
Output AC (Back-up)		
Rated output power	60 kW	75 kW
Max. apparent output power	1.2 times of rated power, 10 mins; 1.4 times of rated power, 100 s; 1.6 times of rated power, 10 s; 2 times of rated power, 200 ms	
Back-up switch time	< 10 ms	
Rated output voltage	3/(N)/PE, 220 V / 230 V	
Rated frequency	50 Hz / 60 Hz	
THDv (@linear load)	< 2%	
Input AC (Generator)		
Max. input power	60 kW	75 kW
Rated input current	157.5 A / 150.6 A	196.8 A / 188.2 A
Rated input voltage		3/(N)/PE, 220 V / 230 V
Rated input frequency		50 Hz / 60 Hz
Efficiency		
Max. efficiency		97.6%
EU efficiency		97.2%
BAT charged / discharged to AC max. efficiency		97.0%
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
Protection class / Over voltage category		I / DC II, AC III
General Data		
Max. allowable phase imbalance (grid & back-up)		100%
Max. power per phase (grid & back-up)	20 kW	25 kW
Dimensions (W × H × D)	1174 × 814 × 400 mm	
Weight	170 kg	
Topology	Transformerless	
Operating ambient temperature range	-25 ~ +60°C	
Relative humidity	0 - 100%	
Ingress protection	IP66	
Cooling concept	Intelligent fan-cooling	
Max. operation altitude	3000 m	
Grid connection standard	G99, VDE-AR-N 4105/VDE V 0124, EN 50549-1&2/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, RS485-115200, Ethernet, Optional: Wi-Fi, Cellular, LAN	