

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 (external ATS 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. current per DC input		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		100 A × 2 / 100 A × 2
Number of battery port / Number of BMS port		2
Max. charge / discharge current of each port		100 A
Communication		CAN
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, 127 V / 220 V, 133 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 power		95.2 kW / 99.6 kW
Input voltage range		176 - 265 V
Max. input current		250 A
Output AC (Back-up)		
Rated output power	60 kW	75 kW
Max. apparent output power	1.6 times of rated power, 10 s; 2 times of rated power, 200 ms	1.4 times of rated power, 10 s; 1.6 times of rated power, 200 ms
Back-up switch time ^①		< 10 ms
Rated output voltage		3/(N)/PE, 127 V / 220 V, 133 V / 230 V
Rated frequency		50 Hz / 60 Hz
Rated output current	157.5 A / 150.6 A	196.8 A / 188.2 A
Max. AC passthrough current	157.5 A / 150.6 A	196.8 A / 188.2 A
THDv (@linear load)		< 3%
Input AC (Generator side)		
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, 127 V / 220 V, 133 V / 230 V
Rated input frequency		50 Hz / 60 Hz
Efficiency		
Max. efficiency		96.0%
EU efficiency	94.5%	94.6%
BAT charged by PV / AC max. efficiency		97.6% / 95.6%
Battery discharged efficiency		95.6%
Protection		
Surge protection		DC Type II / AC Type II
Output over current protection		Yes
Insulation resistance monitoring		Yes
Residual current detection		Yes
Integrated PV switch		Yes
DC reverse-polarity protection		Yes
Protection class / Over voltage category		I / DC II, AC III
Integrated AFCI 2.0		Optional
Anti-islanding protection		Yes
General Data		
Max. power per phase (grid & back-up)		33% rated power
Dimensions (W × H × D)		1174 × 814 × 400 mm
Weight		170 kg
Inverter topology		Non-isolated
Self-consumption		< 45 W
Operating temperature range		-25 ~ +60°C
Relative humidity		0 - 100%
Ingress protection		IP66
Cooling concept		Intelligent redundant fan-cooling
Max. operation altitude		3000 m
Grid connection standard ^②	G99, EN 50549-1&2/EN 50549-10, C10/11, IEC 62116, IEC 61727, PORTARIA N° 140, PORTARIA N° 515	
Safety / EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4, EN 55011	
Features		
PV connection		MC4 connector
Battery connection		Terminal connector
AC connection		Terminal block
Display		7.0" LCD display & Bluetooth + APP
Communication interface	Standard: WIFI+LAN+Bluetooth, CAN-BMS×2, CAN-Parallel×2, LAN, RS485-Meter, RS485, DRM, DI×5, DO×4; Optional: 4G	

① From On-Grid Mode to Off-Grid Mode: For a single inverter system, switchover time <10ms. For a parallel system which consists of up to 6 inverters, switchover time <20ms. If customer wishes to connect more than 6 inverters in parallel, please contact Solis Technical Team.

② This column only shows the planned certification standards. Please confirm the specific time of obtaining the standards with the local team.