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. 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 / 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, 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	Transformerless	
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 Nº 140, PORTARIA Nº 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.