



15-35K

SOLARATOR SERIES

Experience Uninterrupted Power with Solis Energy Storage Inverters

S6-EH3P(15-35)K-H-LV(21A)

Three Phase | High Voltage

10 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 160A
- ★ 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
- ★ 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

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 350kW (Solis STS cabinet recommended for systems over 6 units)



DATASHEET

Models	15K	20K	25K	30K	35K
Input DC (PV side)					
Recommended max. PV array size	30 kW	40 kW	50 kW	60 kW	70 kW
Max. usable PV input power	30 kW	40 kW	50 kW	60 kW	70 kW
Max. input voltage			1000 V		
Rated voltage			600 V		
Start-up voltage			180 V		
MPPT voltage range			150 - 850 V		
Max. input current			3 × 42 A		
Max. current per DC input			42 A		
Max. short circuit current			3 × 60 A		
MPPT number / Max. input strings number			3 / 6		
Battery					
Battery type			Li-ion		
Battery voltage range			150 - 800 V		
Max. charge / discharge current			80 A × 2		
Number of battery port / Number of BMS port			2		
Max. charge / discharge current of each port			80 A		
Communication			CAN / RS485		
Output AC (Grid side)					
Rated output power	15 kW	20 kW	25 kW	30 kW	35 kW
Max. apparent output power	15 kVA	20 kVA	25 kVA	30 kVA	35 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	39.4 A / 37.7 A	52.5 A / 50.2 A	65.6 A / 62.8 A	78.7 A / 75.3 A	91.8 A / 87.8 A
Power factor			> 0.99 (0.8 leading - 0.8 lagging)		
THDi			< 3%		
Input AC (Grid side)					
Max. input power	30 kW	40 kW	50 kW	57.9 kW / 60 kW	
Input voltage range			176 - 265 V		
Max. input current	78.8 A / 75.4 A	105 A / 100.4 A	131.2 A / 125.6 A	152 A / 152 A	
Output AC (Back-up)					
Rated output power	15 kW	20 kW	25 kW	30 kW	35 kW
Max. apparent output power		1.6 times of rated power, 2 s; 1.5 times of rated power, 10 s			
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	39.4 A / 37.7 A	52.5 A / 50.2 A	65.6 A / 62.8 A	78.7 A / 75.3 A	91.8 A / 87.8 A
Max. AC passthrough 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	91.8 A / 87.8 A
THDv (@linear load)			< 2%		
Input AC (Generator side)					
Max. input power	15 kW	20 kW	25 kW	30 kW	35 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	91.8 A / 87.8 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			96.3%		
EU efficiency			95.5%		
BAT charged by PV / AC max. efficiency			97.4% / 95.4%		
Battery discharged efficiency			95.8%		
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 / PV II, battery 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)			530 × 880 × 290 mm		
Weight			76 kg		
Inverter topology			Transformerless		
Self-consumption			< 35 W		
Operating temperature range			-25 ~ +60°C		
Relative humidity			0 - 100%		
Ingress protection			IP66		
Cooling concept			Intelligent redundant fan-cooling		
Max. operation altitude			4000 m		
Grid connection standard ^②	VDE-AR-N 4105 AVDE V 0124, EN 50549-1/EN 50549-10, PTPIREE, 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			OT terminal		
Display			7.0" LCD display & Bluetooth + APP		
Communication interface	Standard: WIFI+LAN+Bluetooth, CAN-BMS×2, CAN-Parallel×2, RS485-Meter, RS485, DRM, DI×3, DO×3; 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.