

NEW

 solis

30-60K

# SOLARATOR SERIES

Operates Seamlessly with Generator: Experience Uninterrupted Power, Even in Areas with Grid Instability

## S6-EH3P(30-60)K-H(21A)

Three Phase | High Voltage

### 10 Unique Advantages

- ★ Supports PV input up to 100kW, maximising solar utilisation
- ★ 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 168A
- ★ 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 600kW (Solis STS cabinet recommended for systems over 6 units)

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# DATASHEET

Models	30K	40K	50K	60K
<b>Input DC (PV side)</b>				
Recommended max. PV array size	60 kW	80 kW	100 kW	100 kW
Max. usable PV input power	60 kW	80 kW	100 kW	100 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		4 × 42 A	
Max. current per DC input			42 A	
Max. short circuit current	3 × 60 A		4 × 60 A	
MPPT number / Max. input strings number	3 / 6		4 / 8	
<b>Battery</b>				
Battery type			Li-ion	
Battery voltage range			150 - 800 V	
Max. charge / discharge current		80 A × 2		84 A × 2
Number of battery port / Number of BMS port			2	
Max. charge / discharge current of each port		80 A		84 A
Communication			CAN / RS485	
<b>Output AC (Grid side)</b>				
Rated output power	30 kW	40 kW	50 kW	60 kW
Max. apparent output power	30 kVA	40 kVA	50 kVA	60 kVA
Rated grid voltage			3/N/PE, 220 V / 380 V, 230 V / 400 V	
Rated grid frequency			50 Hz / 60 Hz	
Rated grid output current	45.6 A / 43.3 A	60.8 A / 57.7 A	76 A / 72.2 A	91.2 A / 86.6 A
Power factor			> 0.99 (0.8 leading - 0.8 lagging)	
THDi			< 3%	
<b>Input AC (Grid side)</b>				
Max. input power	60 kW	60 kW	100 kW	100kW / 105kW
Input voltage range			304 - 460 V	
Max. input current	91.2 A / 86.6 A	121.6 A / 115.4 A	152 A / 144.4 A	152 A / 152 A
<b>Output AC (Back-up)</b>				
Rated output power	30 kW	40 kW	50 kW	60kW
Max. apparent output power		1.6 times of rated power, 2 s; 1.5 times of rated power, 10 s		
Back-up switch time <sup>①</sup>			< 10 ms	
Rated output voltage			3/N/PE, 220 V / 380 V, 230 V / 400 V	
Rated frequency			50 Hz / 60 Hz	
Rated output current	45.6 A / 43.3 A	60.8 A / 57.7 A	76 A / 72.2 A	91.2 A / 86.6 A
Max. AC passthrough current	45.6 A / 43.3 A	60.8 A / 57.7 A	76 A / 72.2 A	91.2 A / 86.6 A
THDv (@linear load)			< 2%	
<b>Input AC (Generator side)</b>				
Max. input power	30 kW	40 kW	50 kW	60 kW
Rated input current	45.6 A / 43.3 A	60.8 A / 57.7 A	76 A / 72.2 A	91.2 A / 86.6 A
Rated input voltage			3/N/PE, 220 V / 380 V, 230 V / 400 V	
Rated input frequency			50 Hz / 60 Hz	
<b>Efficiency</b>				
Max. efficiency			97.7%	
EU efficiency			97.3%	
BAT charged by PV / AC max. efficiency			98.5% / 97.8%	
Battery discharged efficiency			97.5%	
<b>Protection</b>				
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	
<b>General Data</b>				
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 <sup>②</sup>	G99, VDE-AR-N 4105/VDE V 0124, EN 50549-1/EN 50549-10, PTPIREE, VDE 0126/XP C15/VFR:2019, NTS 631/RD 1699/UNE 217002, CEI 0-21, CEI 0-16, C10/11, NRS 097-2-1, TOR, EIFS 2018.2, IEC 62116, IEC 61727, DEWA, MEA, PEA, PORTARIA N° 140/PORTARIA N° 515			
Safety / EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4, EN 55011			
<b>Features</b>				
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.