





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)

PHILIPPINES

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DATASHEET

Models	30K	40K	50K	60K
Input DC (PV side)				
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 × 42A		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	
Battery				
Battery type			Li-ion	
Battery voltage range			150 - 800 V	
Max. charge / discharge current		80 A × 2		84 A × 2
Number of battery ports			2	
Max. charge / discharge power of each input	33 kW		35 kW	
Communication			CAN / RS485	
Output AC (Back-up)				
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			< 10 ms	
Rated output voltage		3/N/PE, 220 V / 380 V, 230 V / 400 V		
Rated frequency		50 Hz / 60 Hz		
THDv (@linear load)		< 2%		
Input AC (Grid side)				
Max. input current	91.2 A / 86.6 A	121.6 A / 115.4 A	152 A / 144.4 A	152 A / 152 A
Input AC (Generator)				
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		
Output AC (Grid side)				
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%		
Efficiency				
Max. efficiency		97.7%		
EU efficiency		97.3%		
Battery charged efficiency		98.5%		
Battery discharged efficiency		97.5%		
Protection				
Surge protection		DC Type II / AC Type II		
Output over current protection		Yes		
Integrated DC switch		Yes		
DC reverse-polarity protection		Yes		
Protection class / Over voltage category		I / PV II, battery II, AC III		
Integrated AFCI 2.0		Optional		
General Data				
Max. allowable phase imbalance (grid & back-up)		100%		
Max. power per phase (grid & back-up)		33%		
Dimensions (W × H × D)		530 × 880 × 290 mm		
Weight		76 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		4000 m		
Grid connection standard		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/RD 244/UNE 217002, CEI 0-21, 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		
Features				
PV connection		MC4 connector		
Battery connection		Terminal connector		
AC connection		OT terminal		
Display		7.0" LCD display & Bluetooth + APP		
Communication		CAN, RS485-115200, Optional: Wi-Fi, Cellular, LAN		