





30-35K

SOLARATOR SERIES

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

S6-EH3P(30-35)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)

PHILIPPINES

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DATASHEET

Models	30K	35K
Input DC (PV side)		
Recommended max. PV array size	60 kW	70 kW
Max. usable PV input power	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	30 kW	35 kW
Max. apparent output power	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	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		57.9 kW / 60 kW
Input voltage range		176 - 265 V
Max. input current		152 A / 152 A
Output AC (Back-up)		
Rated output power	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	78.7 A / 75.3 A	91.8 A / 87.8 A
Max. AC passthrough current	78.7 A / 75.3 A	91.8 A / 87.8 A
THDv (@linear load)		< 2%
Input AC (Generator side)		
Max. input power	30 kW	35 kW
Rated input current	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.