

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 (external ATS 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	
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	Non-isolated	
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 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	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.