

NEW

30K

SOLARATOR SERIES

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

S6-EH3P30K03-LV-YD-H-US(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 300kW (external ATS recommended for systems over 6 units)

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DATASHEET

Models	30K
Input DC (PV side)	
Recommended max. PV array size	60 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 × 65 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	26 kW / 27.5 kW / 30 kW
Max. apparent output power	26 kVA / 27.5 kVA / 30 kVA
Rated grid voltage	3/(N)/PE, 120 V / 208 V, 127 V / 220V, 139 V / 240 V
Rated grid frequency	60 Hz
Rated grid output current	72.2 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)
THDi	< 3%
Input AC (Grid side)	
Max. input power	60 kW
Input voltage range	166 - 276 V
Max. input current	144.4 A
Output AC (Back-up)	
Rated output power	26 kW / 27.5 kW / 30 kW
Max. apparent output power	1.6 times of rated power with 2 s
Back-up switch time ^①	< 10 ms
Rated output voltage	3/(N)/PE, 120 V / 208 V, 127 V / 220V, 139 V / 240 V
Rated frequency	60 Hz
Rated output current	72.2 A
Max. AC passthrough current	72.2 A
THDv (@linear load)	< 2%
Input AC (Generator side)	
Max. input power	26 kW / 27.5 kW / 30 kW
Rated input current	72.2 A
Rated input voltage	3/(N)/PE, 120 V / 208 V, 127 V / 220V, 139 V / 240 V
Rated input frequency	60 Hz
Efficiency	
Max. efficiency	95.84%
CEC efficiency	95.03%
BAT charged by PV / AC max. efficiency	98.6% / 96.0%
Battery discharged efficiency	96.2%
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 / DC II, AC III
Integrated AFCI 2.0	Yes
Anti-islanding protection	Yes
Rapid shutdown NEC 2017	Integrated SunSpec-certified Transmitter
Compatible RSD receivers	See MLRSD Compatibility Sheet
General Data	
Max. power per phase (grid & back-up)	33% rated power
Dimensions (W × H × D)	22.05 × 41.34 × 13.64 in (560 × 1050 × 346.5 mm)
Weight	195.77 lbs (88.8 kg)
Inverter topology	Non-isolated
Self-consumption	< 35 W
Operating temperature range	-13°F to 140°F (-25°C to 60°C)
Relative humidity	0 - 100%
Ingress protection	TYPE 4X
Cooling concept	Intelligent redundant fan-cooling
Max. operation altitude	9842,52 ft (3000 m)
Compliance ^②	UL1741SB, IEEE1547-2018, UL1699B, UL1998, FCCPart15 lassB, California Rule21, Hawaii Rule 14H, NEC 690.12-2020, CAN/CSA C22.2107.1-1
Features	
PV connection	MC4 connector
Battery connection	Spring clamp terminals
AC connection	Screw type terminal block
Display	7.0" LCD display & Bluetooth + APP
Monitoring platform	SolisCloud (modbus map and API sharing available upon request)
Revenue grade meter	Integrated ANSI C12.20 option
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.