


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 (Solis STS cabinet recommended for systems over 6 units)

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DATASHEET

Models	30K
Input DC (PV side)	
Max. usable PV input power	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 x 42 A
Max. short circuit current	3 x 65 A
MPPT number / Max. input strings number	3 / 6
Max input power per MPPT	25 kW (600 V x 42 A)
Battery	
Battery type	Li-ion
Battery voltage range	150 - 800 V
Max. charge / discharge power	33 kW
Max. charge / discharge current	80 A x 2 ^①
Number of battery ports	2
Max. charge / discharge power of each input	33 kW
Communication	CAN / RS485
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, 208 V / 220 V / 240 V
Rated grid frequency	60 Hz
Rated grid output current	72.2 A
Max. output current	72.2 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)
THDi	< 3%
Input AC (Grid side)	
Max. AC passthrough current	144.4 A
Rated input voltage	3/(N)/PE, 208 V / 220 V / 240 V
Rated input frequency	60 Hz
Input Generator	
Max. input power	26 kW / 27.5 kW / 30 kW
Max. input current	72.2 A
Rated input voltage	3/(N)/PE, 208 V / 220 V / 240 V
Rated input frequency	60 Hz
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	< 10 ms
Rated output voltage	3/(N)/PE, 208 V / 220 V / 240 V
Rated frequency	60 Hz
Rated output current	72.2 A
Max. imbalance power per phase	33% rated power
THDv (@linear load)	< 2%
Efficiency	
Max. efficiency	97.9%
CEC efficiency	97.4%
MPPT efficiency	99.9%
Protection	
Ground fault detection	Yes
Residual (leakage) current detection	Yes
Integrated AFCI	Yes
DC reverse-polarity protection	Yes
DC/DC switch	Yes
Rapid shutdown NEC 2017	Integrated SunSpec-certified Transmitter
Compatible RSD receivers	See MLRSD Compatibility Sheet
Protection class/Over voltage category	I / II
General Data	
Dimensions (W*H*D)	22.05 x 41.34 x 13.64 in (560 x 1050 x 346.5 mm)
Weight	195.77 lbs (88.8 kg)
Topology	Transformerless
Self-consumption (night)	< 35 W
Operating ambient temperature range	-13°F to 140°F (-25°C to 60°C)
Relative humidity	0 - 100%
Ingress protection	TYPE 4X
Cooling concept	Intelligent fan-cooling
Max. operation altitude	8,202 ft (2500 m)
Compliance	UL1741SB, IEEE1547-2018, UL1699B, UL1998, FCCPart15 classB, California Rule21, Hawaii Rule 14H, NEC 690.12-2020, CAN/CSA C22.2107.1-1
Features	
DC connection	Spring clamp terminals
Grid AC connection	Screw type terminal block
Back-up AC connection	Spring clamp terminals
Battery DC connection	Spring clamp terminals
Generator AC connection	Spring clamp terminals
Interface	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	CAN, RS485-115200, Ethernet, Optional: Wi-Fi, Cellular, LAN

^① Supporting parallel 160A input.