

S6-EH3P30K03-LV-YD-H-US

Solis Three Phase High Voltage Energy Storage Inverters

Features:

- Provides up to 160% of inverter output power for 2 seconds to support overload
- Allows for maximum DC input current of 20A, ideal for higher-power PV modules of any brand
- Real-time battery monitoring, remote upgrade, and battery healing function to prolong battery life
- Offers peak-shaving, self-use, off-grid, and generator modes which can be customized to fit various use-cases
- Supports 100% three-phase unbalanced output
- Wide range of battery voltages to match mainstream batteries in the market
- Two inputs for separate battery stacks that can each charge/discharge up to 70A, suitable for 280Ah cell standard 0.5C applications
- Up to 200% DC/AC ratio allows the PV to be more effective at supporting loads and charging the battery during backup scenarios

Models:

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DATASHEET

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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	40 A / 40 A / 40 A
Max. short circuit current	65 A / 65 A / 65 A
MPPT number / Max. input strings number	3 / 6
Max input power per MPPT	24 kW (600 V × 40 A)
Battery	
Battery type	Li-ion
Battery voltage range	150 - 800 V
Max. charge / discharge power	33 kW
Max. charge / discharge current	70 A × 2 ⁽¹⁾
No. of battery input	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 / 220V / 240V
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
THDv (@linear load)	< 2%
Efficiency	
Max. efficiency	97.8%
CEC efficiency	97.0%
Protection	
Ground fault detection	Yes
Residual (leakage) current detection	Yes
Integrated AFCI	Yes
DC reverse-polarity protection	Yes
PV DC switch	Yes
Bypass box	Optional
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 × 36.6 × 12.6 in (560 × 930 × 320 mm)
Weight	187.4 lbs (85 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 - 95%
Ingress protection	TYPE 4X
Cooling concept	Intelligent fan-cooling
Max. operation altitude	8,202 ft (2500 m)
Compliance	UL1741SB, IEEE1547-2018, UL1699B, UL1998, FCCPart15ClassB, 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 (optional)
Communication	CAN, RS485-115200, Ethernet, Optional: Wi-Fi, Cellular, LAN

(1) Supporting parallel 140A input.