


**30-60K**

## SOLARATOR SERIES

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

**S6-EH3P(30-60)K-NV-YD-H-US**

Three Phase | High Voltage



- High input current (40A) supports larger modules, improving power density and eliminating clipping
- Compatible with 100-280Ah battery modules, driving down system costs and enhancing flexibility, wide range for generator power as well
- Supports 200% oversizing for maximizing PV utilization (60K: 166%)
- Stability during and after outages with 160% overload capacity
- More seamless system operation and resiliency with fast and automated battery charge/discharging
- Extremely flexible configurations, storage use mode features and battery options
- Easily add inverter capacity, PV or batteries to scale up as you grow thanks to dual input flexibility

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## DATASHEET

Models	30K03	40K04	50K04	60K04
<b>Input DC (PV side)</b>				
Max. usable PV input power	60 kW	80 kW	100 kW	100 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		4 x 40 A	
Max. short circuit current	65 A / 65 A / 65 A		4 x 65 A	
MPPT number / Max. input strings number	3 / 6		4 / 8	
Max input power per MPPT		25 kW (600 V x 40 A)		
<b>Battery</b>				
Battery type		Li-ion		
Battery voltage range		150 - 800 V		
Max. charge / discharge power	33 kW	44 kW	55 kW	60 kW
Max. charge / discharge current		70 A x 2 <sup>①</sup>		
Number of battery ports		2		
Max. charge / discharge power of each input	33 kW	35 kW	35 kW	35 kW
Communication		CAN / RS485		
<b>Output AC (Grid side)</b>				
Rated output power	30 kW	40 kW	50 kW	60 kW
Max. apparent output power	30 kVA	40 kVA	50 kVA	60 kVA
Rated grid voltage		3/(N)/PE, 480 V		
Rated grid frequency		60 Hz		
Rated grid output current	36.1 A	48.1 A	60.1 A	72.2 A
Max. output current	36.1 A	48.1 A	60.1 A	72.2 A
Power factor		> 0.99 (0.8 leading - 0.8 lagging)		
THDi		< 3%		
<b>Input AC (Grid side)</b>				
Max. AC passthrough current	72.2 A	96.2 A	120.2 A	144.4 A
Rated input voltage		3/(N)/PE, 480 V		
Rated input frequency		60 Hz		
<b>Input Generator</b>				
Max. input power	30 kW	40 kW	50 kW	60 kW
Max. input current	36.1 A	48.1 A	60.1 A	72.2 A
Rated input voltage		3/(N)/PE, 480 V		
Rated input frequency		60 Hz		
<b>Output AC (Back-up)</b>				
Rated output power	30 kW	40 kW	50 kW	60 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, 480 V		
Rated frequency		60 Hz		
Rated output current	36.1 A	48.1 A	60.1 A	72.2 A
Max. imbalance power per phase		33% rated power		
THDv (@linear load)		< 2%		
<b>Efficiency</b>				
Max. efficiency		97.9%		
CEC efficiency		97.4%		
MPPT efficiency		99.9%		
<b>Protection</b>				
Ground fault detection		Yes		
Residual (leakage) current detection		Yes		
Integrated AFCI		Yes		
DC reverse-polarity protection		Yes		
PV 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		
<b>General Data</b>				
Dimensions (W*H*D)		22 x 41.3 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, FCCPart15ClassB, California Rule21, Hawaii Rule 14H, NEC 690.12-2020, CAN/CSA C22.2107.1-1		
<b>Features</b>				
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		

<sup>①</sup> Supporting parallel 140A input.