

Solis Solarator Series

Experience Uninterrupted Power with Solis Energy Storage Inverters

Energy Storage Inverters

S6-EH3P(7-9)K02-LV-YD-L

Three Phase | Low Voltage



High Performance

- Supports three-phase unbalanced output, allowing up to 50% of rated inverter power per phase
- 160% PV input capacity to maximize solar energy utilization
- Max. 200% overload capability in off-grid mode
- Switching time < 10ms

Flexible & Scalable

- Compatible with mainstream lithium and lead-acid batteries
- Easily expand system capacity using parallel connections and AC coupling
- Support max. 6 inverters in parallel

Smart Energy Management

- Seamless integration with VPP and EMS platforms for enhanced energy optimization

Simple & Fast Configuration

- 7-inch large screen uses U.S.-made ZEITLER industrial-grade components
- Bluetooth app support for quick and easy setup

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DATASHEET

S6-EH3P(7-9)K02-LV-YD-L

Models	7K	8K	9K
Input DC (PV side)			
Recommended max. PV array size	14 kW	16 kW	18 kW
Max. usable PV input power	11.2 kW	12.8 kW	14.4 kW
Max. input voltage		1000 V	
Rated voltage		550 V	
Start-up voltage		160 V	
MPPT voltage range		200 - 850 V	
Max. input current		20 A / 40 A	
Max. short circuit current		30 A / 50 A	
MPPT number / Max. input strings number		2 / 3	
Battery			
Battery type		Li-ion / Lead-acid	
Battery voltage range		40 - 60 V	
Max. charge / discharge current	156 A	178 A	200 A
Communication		CAN / RS485	
Output AC (Grid side)			
Rated output power	7 kW	8 kW	9 kW
Max. apparent output power	7 kVA	8 kVA	9 kVA
Rated grid voltage		3/N/PE, 127 V / 220 V; 3/N/PE, 133 V / 230 V	
Rated grid frequency		50 Hz / 60 Hz	
Rated grid output current	18.4 A / 17.6 A	21 A / 20.1 A	23.5 A / 22.6 A
Max. output current	18.4 A	21 A	23.5 A
Power factor		> 0.99 (0.8 leading - 0.8 lagging)	
THDi		< 3%	
Input AC (Grid side)			
Max. input power	10.5 kW	12 kW	13.5 kW
Max. input current	27.6 A	31.5 A	35.4 A
Rated input voltage		3/N/PE, 127 V / 220 V; 3/N/PE, 133 V / 230 V	
Frequency range		45 - 55 Hz / 55 - 65 Hz	
Input Generator			
Max. input power	7 kW	8 kW	9 kW
Max. input current	18.4 A	21 A	23.5 A
Rated input voltage		3/N/PE, 127 V / 220 V; 3/N/PE, 133 V / 230 V	
Rated input frequency		50 Hz / 60 Hz	
Output AC (Back-up)			
Rated output power	7 kW	8 kW	9 kW
Max. apparent output power		2 times of rated power, 10 s	
Back-up switch time		< 10 ms	
Rated output voltage		3/N/PE, 127 V / 220 V; 3/N/PE, 133 V / 230 V	
Rated frequency		50 Hz / 60 Hz	
Rated output current	18.4 A / 17.6 A	21 A / 20.1 A	23.5 A / 22.6 A
Max. continuous output current	18.4 A	21 A	23.5 A
Max. continuous AC passthrough current		50 A	
THDv (@linear load)		< 3%	
Efficiency			
Max. efficiency		96.2%	
EU efficiency		95.4%	
BAT charged by PV / AC max. efficiency		95.0% / 94.4%	
BAT discharged to AC max. efficiency		94.5%	
Protection			
Anti-islanding protection		Yes	
Output over current protection		Yes	
Short circuit protection		Yes	
DC reverse-polarity protection		Yes	
Surge protection		DC Type II / AC Type II (Optional)	
Integrated AFCI 2.0		Optional (Brazil: Yes)	
Integrated DC switch		Yes	
General Data			
Dimensions (W × H × D)		430 × 660 × 305 mm	
Weight		42 kg	
Topology		Non-isolated	
Self-consumption (night)		< 30 W	
Operating ambient temperature range		-25 ~ +60°C	
Relative humidity		0 - 100%	
Ingress protection		IP66	
Noise emission (typical)		< 65 dB(A)	
Cooling concept		Intelligent fan-cooling	
Max. operation altitude		4000 m	
Grid connection standard		Philippin, ORDINANCE (PORTARIA) No.140 and No. 515	
Safety / EMC standard		IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3-4, EMC	
Features			
DC connection		MC4 Quick connection plug (PV) & Screw terminal (Battery)	
AC connection		Screw terminal	
Display		7.0" LCD display & Bluetooth + APP	
Communication		CAN, RS485, Ethernet, Optional: Wi-Fi, Cellular, LAN	