

Solis Solarator Series

Experience Uninterrupted Power with Solis Energy Storage Inverters

Energy Storage Inverters

S6-EH3P(8-15)K02-NV-YD-L

Three Phase | Low Voltage



Smart Energy Management

- AI intelligently manages charging and discharging based on TOU (Time-of-Use) tariffs
- Seamless integration with VPP and EMS platforms for enhanced energy optimization
- Built-in control for SG-ready heat pumps



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
- Switching time < 10ms



Flexible & Scalable

- Compatible with mainstream lithium and lead-acid batteries
- Easily expand system capacity using parallel connections and AC coupling



Simple & Fast Configuration

- 7-inch LCD screen for an intuitive user experience
- Bluetooth app support for quick and easy setup

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DATASHEET

S6-EH3P(8-15)K02-NV-YD-L

Models	8K	10K	12K	15K
Input DC (PV side)				
Recommended max. PV array size	16 kW	20 kW	24 kW	30 kW
Max. usable PV input power	12.8 kW	16 kW	19.2 kW	24 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		40 A / 40 A
Max. short circuit current		30 A / 50 A		50 A / 50 A
MPPT number / Max. input strings number		2 / 3		2 / 4
Battery				
Battery type			Li-ion / Lead-acid	
Battery voltage range			40 - 60 V	
Max. charge / discharge current	180 A	220 A	250 A	290 A
Communication			CAN / RS485	
Output AC (Grid side)				
Rated output power	8 kW	10 kW	12 kW	15 kW
Max. apparent output power	8 kVA	10 kVA	12 kVA	15 kVA
Rated grid voltage		3/N/PE, 220 V / 380 V; 3/N/PE, 230 V / 400 V		
Rated grid frequency		50 Hz / 60 Hz		
Rated grid output current	12.2 A / 11.5 A	15.2 A / 14.4 A	18.2 A / 17.3 A	22.8 A / 21.7 A
Max. output current	12.2 A	15.2 A	18.2 A	22.8 A
Power factor		> 0.99 (0.8 leading - 0.8 lagging)		
THDi		< 3%		
Input AC (Grid side)				
Input voltage range		323 - 460 V		
Max. input current	18.3 A / 17.3 A	22.8 A / 21.7 A	27.3 A / 26.0 A	34.2 A / 32.5 A
Frequency range		45 - 55 Hz / 55 - 65 Hz		
Input Generator				
Max. input power	8 kW	10 kW	12 kW	15 kW
Max. input current	12.2 A	15.2 A	18.2 A	22.8 A
Rated input voltage		3/N/PE, 220 V / 380 V; 3/N/PE, 230 V / 400 V		
Rated input frequency		50 Hz / 60 Hz		
Output AC (Back-up)				
Rated output power	8 kW	10 kW	12 kW	15 kW
Max. apparent output power		2 times of rated power, 10 s		
Back-up switch time		< 10 ms		
Rated output voltage		3/N/PE, 220 V / 380 V; 3/N/PE, 230 V / 400 V		
Rated frequency		50 Hz / 60 Hz		
Rated output current	12.2 A / 11.5 A	15.2 A / 14.4 A	18.2 A / 17.3 A	22.8 A / 21.7 A
Max. continuous output current	12.2 A	15.2 A	18.2 A	22.8 A
Max. continuous AC passthrough current		50 A		
THDv (@linear load)		< 3%		
Efficiency				
Max. efficiency		97.5%		
EU efficiency		97.0%		
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		Yes		
Integrated AFCI 2.0		Optional		
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		-40 ~ +60°C		
Ingress protection		IP66		
Noise emission (typical)		< 65 dB(A)		
Cooling concept		Intelligent fan-cooling		
Max. operation altitude		4000 m		
Grid connection standard	NRS 097-2-1, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, SriLanka, EN 50438L, Vietnam, PEA, MEA			
Safety / EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-3			
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			