

Solis Solarator Series

Experience Uninterrupted Power with Solis Energy Storage Inverters

Energy Storage Inverters

S6-EH1P(12-16)K03-NV-YD-L

Single 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

- 160% PV input capacity to maximize solar energy utilization
- Switching time < 4ms



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

GINLONG TECHNOLOGIES CO., LTD.

t: +86 574 6580 2188 e: sales@ginlong.com
w: solisinverters.com service@ginlong.com



DATASHEET

S6-EH1P(12-16)K03-NV-YD-L

Models	12K		14K		16K	
Input DC (PV side)						
Recommended max. PV array size	24 kW		28 kW		32 kW	
Max. usable PV input power	19.2 kW		22.4 kW		22.4 kW	
Max. input voltage			550 V			
Rated voltage			380 V			
Start-up voltage			100 V			
MPPT voltage range			100 - 450 V			
Max. input current			40 A / 40 A / 40 A			
Max. short circuit current			50 A / 50 A / 50 A			
MPPT number / Max. input strings number			3 / 6			
Battery						
Battery type			Li-ion / Lead-acid			
Battery voltage range			40 - 60 V			
Max. charge / discharge current	250 A		290 A		290 A	
Communication			CAN / RS485			
Output AC (Grid side)						
Rated output power	12 kW		14 kW		16 kW	
Operation phase			L/N/PE			
Rated grid voltage			220 V / 230 V			
Rated grid frequency			50 Hz / 60 Hz			
Rated grid output current	54.5 A / 52.2 A		63.6 A / 60.9 A		72.7 A / 69.6 A	
Power factor			> 0.99 (0.8 leading - 0.8 lagging)			
THDi			< 3%			
Input AC (Grid side)						
Input voltage range			187 - 253 V			
Max. input current	81.8 A / 78.3 A		95.5 A / 91.3 A		109.1 A / 104.3 A	
Frequency range			45 - 55 Hz / 55 - 65 Hz			
Output AC (Back-up)						
Rated output power	12 kW		14 kW		16 kW	
Max. apparent output power			2 times of rated power, 10 s			
Back-up switch time			< 4 ms			
Rated output voltage			L/N/PE, 220 V / 230 V			
Rated frequency			50 Hz / 60 Hz			
Rated output current	54.5 A / 52.2 A		63.6 A / 60.9 A		72.7 A / 69.6 A	
THDv (@linear load)			< 3%			
Input Generator						
Max. input power	12 kW		14 kW		16 kW	
Max. input current	54.5 A / 52.2 A		63.6 A / 60.9 A		72.7 A / 69.6 A	
Rated input frequency			50 Hz / 60 Hz			
Efficiency						
Max. efficiency			97.6%			
EU efficiency			97.0%			
BAT charged by PV max. efficiency			> 94.9%			
BAT charged / discharged to AC max. efficiency			> 94.33% / 93.51%			
Protection						
Surge protection			Yes			
DC reverse-polarity protection			Yes (PV only)			
Ground fault monitoring			Yes			
Integrated AFCI			Yes ⁽¹⁾			
Protection class / Over voltage category			I / II (PV and BAT), III (MAINS and BACKUP and GEN)			
General Data						
Dimensions (W × H × D)			459 × 845 × 313 mm			
Weight			55.5 kg			
Topology			Transformerless			
Operating ambient temperature range			-25 ~ +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 61116, IEC 61727, IEC 60068, IEC 61683, EN 50530, EN50549-1			
Safety / EMC standard			IEC/EN 62109-1/-2, EN 61000-6-2/-3			
Features						
DC connection			MC4 plug (PV port) / Terminal Block (BAT port)			
AC connection			Terminal Block			
Display			7.0" LCD display & Bluetooth + APP			
Communication			RS485, Optional: Cellular, Wi-Fi, LAN			

(1) Activation required.