



solis

20th
ANNIVERSARY



Energy Storage Inverters

S6-EH1P(8-10)K-L-PLUS

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



High Performance

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

UK

t: +44 113 328 0870 (sales)
+44 1514 536515 (service)

e: europesales@solisinverters.com
ukservice@solisinverters.com

w: solisinverters.com/uk



DATASHEET

S6-EH1P(8-10)K-L-PLUS

Models	8K	10K
Input DC (PV side)		
Recommended max. PV array size	16 kW	20 kW
Max. usable PV input power	12.8 kW	16 kW
Max. input voltage		500 V
Rated voltage		330 V
Start-up voltage		90 V
MPPT voltage range		90 - 435 V
Max. input current	32 A / 32 A	42 A / 42 A
Max. short circuit current	40 A / 40 A	48 A / 48 A
MPPT number / Max. input strings number		2 / 4
Battery		
Battery type		Li-ion / Lead-acid
Battery voltage range		40 - 60 V
Max. charge / discharge power	8 kW	10 kW
Max. charge / discharge current	190 A	208 A
Communication		CAN / RS485
Output AC (Grid side)		
Rated output power	8 kW	10 kW
Max. apparent output power	8 kVA	10 kVA
Operation phase		L/N/PE
Rated grid voltage		220 V / 230 V
Rated grid frequency		50 Hz / 60 Hz
Rated grid output current	36.4 A / 34.8 A	45.5 A / 43.5 A
Max. output current	36.4 A / 34.8 A	45.5 A / 43.5 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	50 A	65 A
Frequency range		45 - 55 Hz / 55 - 65 Hz
Output AC (Back-up)		
Rated output power	8 kW	10 kW
Max. apparent output power		2 times of rated power, 10 s
Back-up switch time		< 10 ms
Rated output voltage		L/N/PE, 220 V / 230 V
Rated frequency		50 Hz / 60 Hz
Rated output current	36.4 A / 34.8 A	45.5 A / 43.5 A
Max. AC passthrough current	50 A	65 A
THDv (@linear load)		< 2%
Input Generator		
Max. input power	8 kW	10 kW
Max. input current	36.4 A / 34.8 A	45.5 A / 43.5 A
Rated input frequency		50 Hz / 60 Hz
Efficiency		
Max. efficiency		96.2%
EU efficiency		96.1%
BAT charged by PV / AC max. efficiency		95.3% / 93.9%
BAT discharged to AC max. efficiency		93.8%
Protection		
Anti-islanding protection		Yes
Ground fault monitoring		Yes
DC reverse-polarity protection		Yes
Integrated AFCI 2.0		Optional
Protection class / Over voltage category		I / II (PV and BAT), III (MAINS and BACKUP and GEN)
General Data		
Dimensions (W × H × D)		335 × 560 × 253 mm
Weight	23.5 kg	24 kg
Topology		High frequency isolation (for battery)
Operating ambient temperature range		-40 ~ +60°C
Ingress protection		IP66
Noise emission (typical)		< 65 dB(A)
Cooling concept		Intelligent fan-cooling
Max. operation altitude		3000 m
Grid connection standard	NRS 097-2-1, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, MEA, PEA, NBR 16149, NBR 16150, G98, CEI 0-21	
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, CAN, Optional: Wi-Fi, GPRS, LAN	