

S6-EH1P(6-8)K-L-PLUS-P



Features

- Supports PV input up to 160% of the inverter's rated DC power, maximising solar utilisation
- 200% overload for 10s in off-grid mode, ensuring stable startup of motors, water pumps and air conditioners
- Seamless on/off-grid switching in under 10ms, guaranteeing an uninterrupted power supply
- More battery options, compatible with any battery (between 40V-60V)
- Supports existing PV grid-tied power connection for export control and off-grid use
- Multiple methods of generator connection and auto control, enabling flexible local deployment
- Ingress protection IP66, for operation in harsh conditions
- Support max 6 units in parallel, expanding system capacity
- Smart Load management, extending backup time for critical loads
- Customizable battery backup level for uninterrupted power
- Supports PV-only off-grid operation, reducing upfront costs
- SolisCloud: Smart remote control, AI optimisation, and instant troubleshooting - all in one platform
- 7-inch industrial-grade touchscreen, providing a larger, user-friendly interface for local operation

S6-EH1P(6-8)K-L-PLUS-P Specs

Models	6K	8K
Input DC (PV side)		
Recommended max. PV array size	12 kW	16 kW
Max. usable PV input power	9.6 kW	12.8 kW
Max. input voltage	500 V	
Rated voltage	330 V	
Start-up voltage	90 V	
MPPT voltage range	90 – 435 V	
Max. input current	16 A / 16 A	32 A / 32 A
Max. short circuit current	20 A / 20 A	40 A / 40 A
MPPT number / Max. input strings number	2 / 2	2 / 4
Battery		
Battery type	Li-ion / Lead-acid	
Battery voltage range	40 – 60 V	
Max. charge / discharge power	6 kW	8 kW
Max. charge / discharge current	135 A	190 A
Communication	CAN / RS485	
Output AC (Grid side)		
Rated output power	6 kW	8 kW
Max. apparent output power	6 kVA	8 kVA
Operation phase	L/N/PE	
Rated grid voltage	220 V / 230 V	
Rated grid frequency	50 Hz / 60 Hz	
Rated grid output current	27.3 A / 26.1 A	36.4 A / 34.8 A
Max. output current	27.3 A / 26.1 A	36.4 A / 34.8 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	40 A	50 A
Frequency range	45 – 55 Hz / 55 – 65 Hz	
Output AC (Back-up)		
Rated output power	6 kW	8 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	27.3 A / 26.1 A	36.4 A / 34.8 A
Max. AC passthrough current	40 A	50 A
THDv (@linear load)	< 2%	
Input Generator		
Max. input power	6 kW	8 kW
Max. input current	27.3 A / 26.1 A	36.4 A / 34.8 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	23.8 kg
Topology	High frequency isolation (for battery)	
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	3000 m	
Certified Standards	EN 50549-1, CEI 0-21, IEC/EN 62109-1/-2, EN 61000-6-2/-3	
Additional Certifications (Available Upon Request)*	NRS 097-2-1, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, MEA, PEA, NBR 16149, NBR 16150, G98, G99, NTS 631 TypeA	
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	

*Certain country-specific or grid-related certifications are not included as standard. If these certifications are required, please contact PYTES in advance before placing an order.