

3-8K

SOLARATOR SERIES

Operates Seamlessly with Generator: Experience Uninterrupted Power, Even in Areas with Grid Instability

S6-EH1P(3-8)K-L-PLUS-AU

Single Phase | Low Voltage



- 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
- 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
- AI-Powered & VPP-Ready - maximise savings, unlock additional income
- Ingress protection IP66, for operation in harsh conditions

AUSTRALIA

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DATASHEET

Models	3K	3.6K	5K	6K	8K
Input DC (PV side)					
Recommended max. PV array size	6 kW	7.2 kW	10 kW	12 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		16 A / 16 A			32 A / 32 A
Max. current per DC input			16 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 current	70 A	80 A	112 A	135 A	190 A
Number of battery port / Number of BMS port			1 / 1		
Communication			CAN / RS485		
Output AC (Grid side)					
Rated output power	3 kW	3.6 kW	5 kW	6 kW	8 kW
Max. apparent output power	3 kVA	3.6 kVA	5 kVA	6 kVA	8 kVA
Rated grid voltage			1/N/PE, 230 V		
Rated grid frequency			50 Hz		
Rated grid output current	13.1 A	15.7 A	21.8 A	26.1 A	34.8 A
Power factor			> 0.99 (0.8 leading - 0.8 lagging)		
THDi			< 3%		
Input AC (Grid side)					
Max. input power	4.6 kW	5.5 kW	7 kW	8.8 kW	11 A
Input voltage range			187 - 253 V		
Max. input current	20 A	24 A	31 A	39 A	50 A
Output AC (Back-up)					
Rated output power	3 kW	3.6 kW	5 kW	6 kW	8 kW
Max. apparent output power			2 times of rated power, 10 s		
Back-up switch time ^①			< 10 ms		
Rated output voltage			1/N/PE, 230 V		
Rated frequency			50 Hz		
Rated output current	13.1 A	15.7 A	21.8 A	26.1 A	34.8 A
Max. AC passthrough current	35 A	35 A	40 A	40 A	50 A
THDv (@linear load)			2%		
Input AC (Generator side)					
Max. input power	3 kW	3.6 kW	5 kW	6 kW	8 kW
Rated input current	13.1 A	15.7A	21.8 A	26.1 A	34.8 A
Rated input voltage			1/N/PE, 230 V		
Rated input frequency			50 Hz		
Efficiency					
Max. efficiency			96.2%		
EU efficiency			94.7%		
BAT charged by PV / AC max. efficiency			95.3% / 94.5%		
Battery discharged efficiency			94.9%		
Protection					
Surge protection			Yes		
Output over current protection			Yes		
Insulation resistance monitoring			Yes		
Residual current detection			Yes		
Integrated PV switch			Yes		
DC reverse-polarity protection			Yes (PV only)		
Protection class / Over voltage category			I / II(PV and BAT), III (MAINS and BACKUP and GEN)		
Integrated AFCI 2.0			Optional		
Anti-islanding protection			Yes		
General Data					
Dimensions (W × H × D)			335 × 560 × 227 mm		
Weight		22 kg		22.5 kg	
Inverter topology			Non-isolated (PV), Isolated (Battery)		
Self-consumption			< 40 W		
Operating temperature range			-25 ~ +60°C		
Relative humidity			0 - 100%		
Ingress protection			IP66		
Noise emission (typical)		< 40 dB(A)		< 65 dB(A)	
Cooling concept		Natural cooling		Intelligent redundant fan-cooling	
Max. operation altitude			3000 m		
Grid connection standard			AS 4777		
Safety / EMC standard			IEC/EN 62109-1/-2, EN 61000-6-2/-3		
Features					
PV connection			MC4 connector		
Battery connection			Terminal Block		
AC connection			Terminal Block		
Display			LED indicator & Bluetooth + APP		
Communication interface			Standard: WIFI+LAN+Bluetooth, CAN-BMS, CAN-Parallel×2, RS485-Meter, RS485, DRM, DI, DO×2		

① From On-Grid Mode to Off-Grid Mode: For a single inverter system, switchover time <10ms.

For a parallel system which consists of up to 6 inverters, switchover time <20ms.

If customer wishes to connect more than 6 inverters in parallel, please contact Solis Technical Team.