

8K

SOLARATOR SERIES

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

S6-EH1P8K-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	8K
Input DC (PV side)	
Recommended max. PV array size	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
Max. current per DC input	16 A
Max. short circuit current	40 A / 40 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 current	190 A
Number of battery port / Number of BMS port	1 / 1
Communication	CAN / RS485
Output AC (Grid side)	
Rated output power	8 kW
Max. apparent output power	8 kVA
Rated grid voltage	1/N/PE, 230 V
Rated grid frequency	50 Hz
Rated grid output current	34.8 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)
THDi	< 3%
Input AC (Grid side)	
Max. input power	11 A
Input voltage range	187 - 253 V
Max. input current	50 A
Output AC (Back-up)	
Rated output power	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	34.8 A
Max. AC passthrough current	50 A
THDv (@linear load)	2%
Input AC (Generator side)	
Max. input power	8 kW
Rated input current	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	22.5 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)	< 65 dB(A)
Cooling concept	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.