



8-15K

SOLARATOR SERIES

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

S6-EH3P(8-15)K02-NV-YD-L-AU

Three Phase | Low Voltage

- Supports PV input up to 160% of the inverter's rated DC power, maximising solar utilisation
- Supports up to 20A PV input current, compatible with future higher-power PV modules
- 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
- Supports both DC and AC coupling—making it easy to expand PV, charge batteries, and power loads reliably, even in off-grid conditions
- Multiple methods of generator connection and auto control, enabling flexible local deployment
- Support max 6 units in parallel, expanding system capacity
- 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
- 7-inch industrial-grade LCD screen, providing a larger, user-friendly interface for local operation
- Ingress protection IP66, for operation in harsh conditions

AUSTRALIA

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DATASHEET

Models	8K	9.9K	10K	12K	15K
Input DC (PV side)					
Recommended max. PV array size	16 kW	19.8 kW	20 kW	24 kW	30 kW
Max. input voltage			1000 V		
Rated voltage			550 V		
Start-up voltage			160 V		
MPPT voltage range			200 - 850 V		
Max. input current		20 A + 40 A			40 A + 40 A
Max. inverter backfeed current to the array			0 A		
Max. short circuit current		30 A + 50 A			50 A + 50 A
MPPT number / Max. input strings number		2 / 3			2 / 4
Battery					
Battery type			Li-ion / Lead-acid		
Battery voltage range			40 - 60 V		
Max. charge / discharge current	180 A	220 A	220 A	250 A	290 A
Max. short circuit current			500A 2ms		
Number of battery port / Number of BMS port			2 / 1		
Max. charge / discharge current of each input			175 A		
Communication			CAN / RS485		
Output AC (Grid side)					
Rated output power	8 kW	9.999 kW	10 kW	12 kW	15 kW
Max. / Rated apparent output power	8 kVA	9.999 kVA	10 kVA	12 kVA	15 kVA
Rated grid voltage			3/N/PE, 230 V / 400 V		
Rated grid frequency			50 Hz		
Rated grid output current	11.5 A	14.4 A	14.4 A	17.3 A	21.7 A
Power factor			> 0.99 (0.8 leading - 0.8 lagging)		
THDi			< 3%		
Input AC (Grid side)					
Max. input current	17.3 A	21.7 A	21.7 A	26.0 A	32.5 A
Max. short circuit current			128.4 A, 88.4ms		
Output AC (Back-up)					
Rated output power	8 kW	9.999 kW	10 kW	12 kW	15 kW
Rated apparent output power	8 kVA	9.999 kVA	10 kVA	12 kVA	15 kVA
Max. apparent output power			2 times of rated power, 10 s		
Back-up switch time			< 10 ms		
Rated output voltage			3/N/PE, 230 V/400 V		
Rated frequency			50 Hz		
Rated output current	11.5 A	14.4 A	14.4 A	17.3 A	21.7 A
Max. AC passthrough current			50 A		
THDv (@linear load)			< 3%		
Input AC (Generator side)					
Max. input power	8 kW	9.999 kW	10 kW	12 kW	15 kW
Rated input current	11.5 A	14.4 A	14.4 A	17.3 A	21.7 A
Rated input voltage			3/N/PE, 230 V / 400 V		
Rated input frequency			50 Hz		
Efficiency					
Max. efficiency			97.5%		
EU efficiency			96.4%		
BAT charged by PV / AC max. efficiency			95.0% / 94.4%		
Battery discharged efficiency			94.5%		
Protection					
Surge protection			DC Type II / AC Type II (optional)		
Output over current protection			Yes		
Insulation resistance monitoring			Yes		
Residual current detection			Yes		
Integrated PV switch			Yes		
DC reverse-polarity protection			Yes		
Protection class / Over voltage category			I / II (PV and BAT), III (MAINS and BACKUP and GEN)		
Integrated AFCI 2.0			Optional		
Active anti-islanding method			Frequency Shift		
General Data					
Max. power per phase			50% rated power		
Dimensions (W × H × D)			430 × 660 × 305 mm		
Weight			42 kg		
Topology			Non-isolated (PV), Isolated (Battery)		
Self-consumption			< 30 W		
Operating 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			4000 m		
Grid connection standard			AS/NZS 4777.2:2020 + A1 + A2		
Safety / EMC standard			IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4		
Features					
PV connection			MC4 Quick connection plug		
Battery connection			Screw terminal		
AC connection			Screw terminal		
Display			7.0" LCD display & Bluetooth + APP		
Communication interface			Standard: WIFI+LAN+Bluetooth, CAN-BMS, CAN-Parallel×2, RS485-Meter, RS485, DRM, DI, DO×4; Optional: 2G/3G/4G		
Country of manufacture			China		