



Tech Specs sonnenBatterie eco

The sonnenBatterie eco is an energy storage solution for your home that uses intelligent software to manage energy throughout the day – saving you money, providing backup power and enabling you to use your solar power at night.

	eco 4	eco 6	eco 8	eco10	eco 12	eco 14	eco 16
Usable capacity (100% DOD)	4 kWh	6 kWh	8 kWh	10 kWh	12 kWh	14 kWh	16 kWh
Nominal power rating (at 25 deg C)	3 kW	4 kW	4 kW	7 kW	8 kW	8 kW	8 kW
Weight (approximate)	377 lbs	437 lbs	496 lbs	622 lbs	683 lbs	741 lbs	800 lbs
Dimensions W“/H“/D“ (approximate)	26/55/14			26/75/14			

Off-grid specifications

Continuous AC output current	11.5 A	15 A	15 A	28 A	30 A	30 A	30 A
Max power	100 ms – 8.5 KVA 5 s – 6 KVA 30 m – 4.5 KVA			100ms – 17 KVA 5 s – 12 KVA 30 m – 9 KVA			
Max AC current (charge/discharge)	1 ms – 50 A 100 ms – 35.35 A 5 s – 25 A 30 m – 18.75 A			1 ms – 100 A 100 ms – 70.7 A 5 s – 50 A 30 m – 37.5 A			

General specifications

Grid integration	AC coupled
Applications	On-grid: self-consumption Off-grid: backup
Transfer switch	Automatic, integrated
Backup capacity	2 kilowatt-hours per battery module, up to 16
Listed and recognized components	Certified to UL 1741 (inverter) and UL 1973 (batteries)
Warranty*	Inverter, 10 years; battery modules, 10 years or 10,000 cycles; cabinet and components, 1 year
Inverter efficiency	92.5% CEC weighted, 95.0% peak
Roundtrip Eff% (Grid<>Battery)	>= 86%
Ventilation	Forced Air
Comm. ports	Serial, Ethernet
Communication protocols	Modbus, Z-Wave, CANbus (ready), WiFi (ready)
Communication and control standards	Open ADR 2.0, SunSpec Alliance
EMC / EMI protection	FCC Part 15B

Transfer switch specifications

Current rating	200 amps switching and overcurrent protection
Voltage rating	120/240 VAC
Certification	UL Recognized Component
Fault Current @ 240VAC	22,000 amps
Nominal frequency	60 Hz

Battery Specifications

DC battery input voltage	48–56 VDC
Max charge current	70 A per module
Nominal charge current	30 A per module
Cell discharge	100% DoD
Overcharge Protection	Fuse protection

AC Specifications

AC grid voltage	120/240 volts
Max AC grid current eco 4/6/8 eco 10/12/14/16	15 amps 30 amps
Nominal AC output current	33.33 amps
Nominal frequency	60 Hz
Adjustable frequency range	+/- 0.7 Hz from nominal
Metering capability	Power meter for load and PV production (not meter-grade)
Tare losses (W)	60 watts
Transient protection	IEEE C62.41 Class B
Protect loads backup	50 amps

Measurements



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We reserve the right to make technical changes. The values, outputs, other technical data, images, and diagrams in this prospectus and in data sheets, advertisements, and other promotional documents are approximate guide lines in all cases where they have not been identified as binding. *Please observe current applicable warranty conditions.



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