



Tech Specs sonnenBatterie eco

The sonnenBatterie eco is a smart 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)							
Indoor model	26/55/14			26/75/14			

Off-grid specification

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 specification

Grid integration	AC coupled
Applications	On-grid: self-consumption, backup power Off-grid: backup
Transfer switch	Automatic, integrated
Backup capacity	2 kilowatt-hours per battery module, up to 16
Listed and recognized components	Certified to ETL 9540, UL 1741 (inverter) and UL 1973 (batteries) standards**
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%
Temperature Range	32 °F - 113 °F
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 specification

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 Specification

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

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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 guidelines in all cases where they have not been identified as binding.

*Please observe our applicable warranty conditions.

**The sonnenBatterie system employs UL 1973 Recognized Batteries (Sony UL file MH48699/model number UJ1001M) and an inverter Certified by ETL to UL 1741 standards.

AC Specification

AC grid voltage	120/240 volts
Max AC grid current	eco 4/6/8 15 amps eco 10/12/14/16 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

