



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

### Off-grid specification

<b>Continuous AC output current</b>	11.5 A	15 A	15 A	28 A	30 A	30 A	30 A
<b>Max power</b>	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			
<b>Max AC current (charge/discharge)</b>	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

<b>Grid integration</b>	AC coupled
<b>Applications</b>	On-grid: self-consumption, backup power Off-grid: backup
<b>Transfer switch</b>	Automatic, integrated
<b>Backup capacity</b>	2 kilowatt-hours per battery module, up to 16
<b>Listed and recognized components</b>	Certified to ETL 9540, UL 1741 (inverter) and UL 1973 (batteries) standards**
<b>Warranty*</b>	Inverter, 10 years; battery modules, 10 years or 10,000 cycles; cabinet and components, 1 year
<b>Inverter efficiency</b>	92.5% CEC weighted, 95.0% peak
<b>Roundtrip Eff% (Grid&lt;&gt;Battery)</b>	>= 86%
<b>Temperature Range</b>	32 °F - 113 °F
<b>Ventilation</b>	Forced Air
<b>Comm. ports</b>	Serial, Ethernet
<b>Communication protocols</b>	Modbus, Z-Wave, CANbus (ready), WiFi (ready)
<b>Communication and control standards</b>	Open ADR 2.0, SunSpec Alliance
<b>EMC / EMI protection</b>	FCC Part 15B

## Transfer switch specification

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

## Battery Specification

<b>DC battery input voltage</b>	48-56 VDC
<b>Max charge current</b>	70 A per module
<b>Nominal charge current</b>	30 A per module
<b>Cell discharge</b>	100% DoD
<b>Overcharge Protection</b>	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

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

## Measurements

