



## Tech Specs sonnenBatterie eco - Gen 2

The sonnenBatterie eco is a smart energy storage solution for your home that uses intelligent software to manage energy throughout the day – providing you with greater energy independence by supplying 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 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

<b>PV integration</b>	AC coupled
<b>Grid-tied Applications</b>	Self-consumption Backup power Time-of-use
<b>Transfer switch</b>	Automatic, integrated
<b>Backup capacity</b>	2 kilowatt-hours per battery module, up to 16kWh
<b>Listed and recognized components</b>	Certified to UL 9540, UL 1741 (inverter), and UL 1973 (batteries) standards**
<b>Warranty*</b>	Battery modules - 10 yrs / 10,000 cycles Inverter, cabinet and components - 10 yrs
<b>Inverter efficiency</b>	92.5% CEC weighted, 95.0% peak
<b>Roundtrip Eff% (Grid&lt;&gt;Battery)</b>	>= 86%
<b>Temperature Range</b>	41 °F - 113 °F
<b>Ventilation</b>	Forced Air
<b>Comm. ports</b>	Serial, Ethernet
<b>Communication protocols</b>	API available to select partners
<b>Communication and control standards</b>	Open ADR 2.0, SunSpec Alliance
<b>EMC / EMI protection</b>	FCC Part 15B
<b>Current rating</b>	
eco 4/6/8***	200 amps (switching and overcurrent protection)
eco 10/12/14/16	

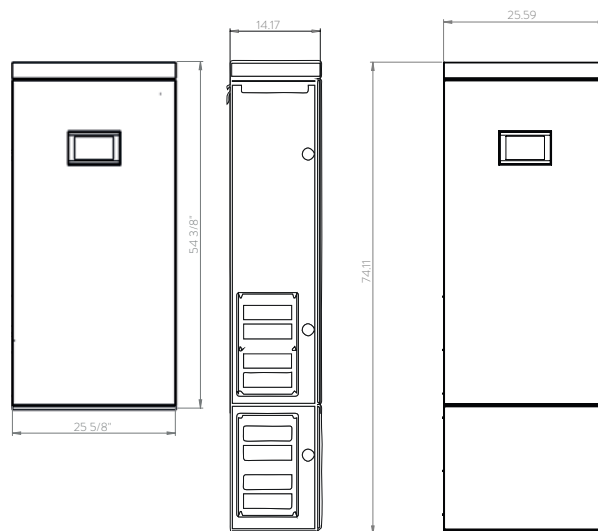
## Battery Specification

<b>DC battery input voltage</b>	48–56 VDC
<b>Max charge current</b>	40 A per module
<b>Nominal charge current</b>	30 A per module
<b>Cell discharge</b>	95% DoD
<b>Overcharge protection</b>	Fuse protection

## AC Specification

<b>AC grid voltage</b>	120/240 volts
<b>Nominal AC output</b>	
eco 4/6/8	16.67 amps
eco 10/12/14/16	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 revenue grade)
<b>Tare losses (W)</b>	60 watts
<b>Transient protection</b>	IEEE C62.41 Class B

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

\*Please observe our applicable warranty conditions.

\*\*The sonnenBatterie system is Certified by ETL to UL 9540 standards and employs UL 1973 Recognized Batteries (Murata/Sony UL file MH48699/model number IJ1101M) plus an inverter Certified by ETL to UL 1741 standards.

\*\*\*eco 4/6/8 comes standard with 200 amp ATS, but is available as custom order without ATS.

sonnen Form TS-eco-0308-001