



## 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

<b>Grid integration</b>	AC coupled
<b>Applications</b>	On-grid: self-consumption 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 UL 1741 (inverter) and UL 1973 (batteries)
<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>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 specifications

<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

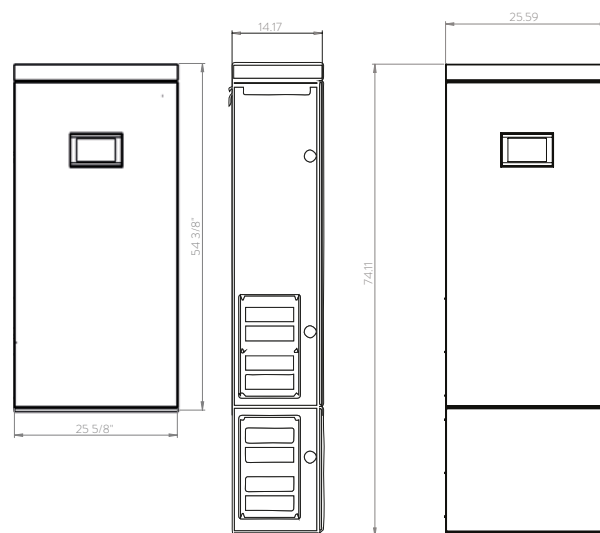
## Battery Specifications

<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

## AC Specifications

<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



### sonnen Inc.

10800 Burbank Blvd., Suite C  
Los Angeles, CA 91601  
Phone: +1 (310) 853-2404

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\*Please observe our applicable warranty conditions.