

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

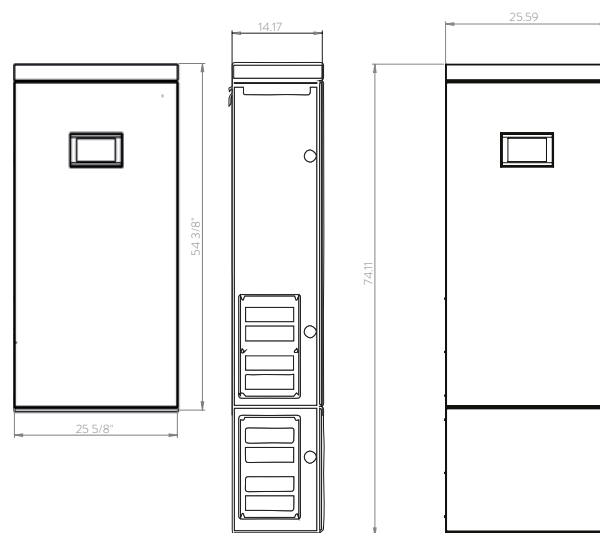
Battery Specifications

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 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



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*Please observe our applicable warranty conditions.