



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

| | |
|---|--|
| PV integration | AC coupled |
| Grid-tied Applications | Self-consumption Backup power Time-of-use |
| Transfer switch | Automatic, integrated |
| Backup capacity | 2 kilowatt-hours per battery module, up to 16kWh |
| Listed and recognized components | Designed to UL 9540 Standards Certified to UL 1741 (inverter) and UL 1973 (batteries) standards** |
| Warranty* | Battery modules - 10 yrs / 10,000 cycles Inverter, cabinet and components - 10 yrs |
| Inverter efficiency | 92.5% CEC weighted, 95.0% peak |
| Roundtrip Eff% (Grid<>Battery) | >= 86% |
| Temperature Range | 41 °F - 113 °F |
| Ventilation | Forced Air |
| Comm. ports | Serial, Ethernet |
| Communication protocols | Modbus, Z-Wave, CANbus (ready) |
| Communication and control standards | Open ADR 2.0, SunSpec Alliance |
| EMC / EMI protection | FCC Part 15B |

Transfer switch specification

| | |
|-------------------------------|--|
| Current rating | |
| eco 4/6/8 | 50 amps (requires external manual bypass switch) |
| eco 10/12/14/16 | 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 | 40 A per module |
| Nominal charge current | 30 A per module |
| Cell discharge | 95% 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 UJ101M) and an inverter Certified by ETL to UL 1741 standards.

AC Specification

| | |
|-----------------------------------|--|
| AC grid voltage | 120/240 volts |
| Nominal AC output | |
| eco 4/6/8 | 16.67 amps |
| eco 10/12/14/16 | 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 |

Measurements

