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.

<table>
<thead>
<tr>
<th></th>
<th>eco 4</th>
<th>eco 6</th>
<th>eco 8</th>
<th>eco10</th>
<th>eco 12</th>
<th>eco 14</th>
<th>eco 16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Usable capacity (100% DOD)</td>
<td>4 kWh</td>
<td>6 kWh</td>
<td>8 kWh</td>
<td>10 kWh</td>
<td>12 kWh</td>
<td>14 kWh</td>
<td>16 kWh</td>
</tr>
<tr>
<td>Nominal power rating (at 25 deg C)</td>
<td>3 kW</td>
<td>4 kW</td>
<td>4 kW</td>
<td>7 kW</td>
<td>8 kW</td>
<td>8 kW</td>
<td>8 kW</td>
</tr>
<tr>
<td>Weight (approximate)</td>
<td>377 lbs</td>
<td>437 lbs</td>
<td>496 lbs</td>
<td>622 lbs</td>
<td>683 lbs</td>
<td>741 lbs</td>
<td>800 lbs</td>
</tr>
<tr>
<td>Dimensions W”/H”/D” (approximate)</td>
<td>26/55/14</td>
<td></td>
<td></td>
<td>26/75/14</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Off-grid specifications

<table>
<thead>
<tr>
<th>Continuous AC output current</th>
<th>11.5 A</th>
<th>15 A</th>
<th>15 A</th>
<th>28 A</th>
<th>30 A</th>
<th>30 A</th>
<th>30 A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max power</td>
<td>100 ms – 8.5 KVA</td>
<td>5 s – 6 KVA</td>
<td>30 m – 4.5 KVA</td>
<td>100 ms – 17 KVA</td>
<td>5 s – 12 KVA</td>
<td>30 m – 9 KVA</td>
<td></td>
</tr>
<tr>
<td>Max AC current (charge/discharge)</td>
<td>1 ms – 50 A</td>
<td>100 ms – 35.35 A</td>
<td>5 s – 25 A</td>
<td>30 m – 18.75 A</td>
<td>1 ms – 100 A</td>
<td>100 ms – 70.7 A</td>
<td>5 s – 50 A</td>
</tr>
</tbody>
</table>
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

Transmit protection: IEEE C62.41 Class B

Protect loads backup: 50 amps

Measurements

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

info@sonnen-batterie.com - www.sonnen-batterie.com

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*Please observe our applicable warranty conditions.