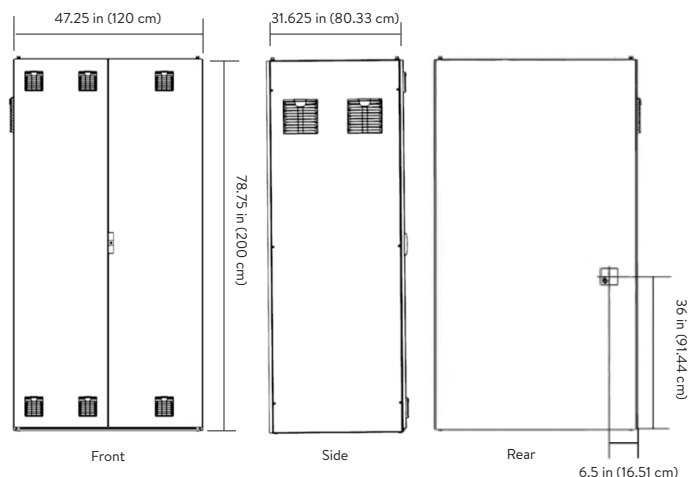


Technical Specifications | **ecoLinX 100**

The ecoLinX 100 is an intelligent energy storage solution for businesses that is designed to be stackable up to 180 kW / 540 kWh of battery capacity. The energy storage system combines smart energy management software with safe and long-lasting batteries to efficiently manage demand charges and energy usage plus provide reliable backup power.

Model number	ECOLX100
Usable capacity	90 kWh
Weight per unit (approximate)	3800 lbs (1333 kg)
Nominal power rating	30 kW
Dimensions W" / H" / D"	47.25 / 78.75 / 31.63
Grid integration	AC coupled
Applications¹	Peak shaving, Time-of-use, Solar self-consumption, Emergency backup power
Inverter efficiency	97.3% peak - 96.5% CEC
Maximum round-trip efficiency²	88.38%
Optimal operation temperature range	64.4 °F - 82.4 °F (18 °C - 28 °C)
System cooling	Forced air cooling
Communication ports	Ethernet
Communication protocols / Control	TCP IP, API IEEE 2030.5
Transfer time	<10 s
Stackable	Yes, up to 6 units (max 180 kW / 540 kWh)
Inverter noise emission	<75 dB
Maximum operation altitude	6562 ft (2000 m)
Total harmonic distortion	<5%

Dimensions



Off-grid specifications

Nominal Off-Grid current (Continuous)	36 A / 30 kW
Max AC Off-Grid current (Max 10 min)	41.4 A / 34.5 kW
Max AC Off-Grid current (Max 1 min)	45 A / 37.5 kW
Max compatible PV inverter	30 kW

AC specification

AC grid voltage	480 VAC (3/N/PE)
Maximum AC grid current	36 A @ 480 V
Surge (Overload capacity)	54 A @ 200 ms
Nominal frequency	60 Hz
Metering capability	Power meters for Grid, load and PV production (not revenue grade)

Compliance information

Certifications	System certified - UL9540; Battery modules - UL1973, UL9540A; Inverter - UL1741, UL1741/SA
Grid Connections	IEEE 1547, IEEE 2030.5, Rule 21
Emissions	FCC Part 15 Class B (inverter)
Transient protection	IEEE C62.41 Class B
Warranty³	10 year or 10,000 cycle system warranty - includes inverter, battery modules, cabinet and components
Enclosure rating	IP30

Battery specification

Nominal DC voltage	672 VDC
DC battery input voltage	630-756 VDC
Max charge current	148 A
Cell discharge	99.45 kWh with 90 % DoD
Cell chemistry	Lithium iron phosphate
Over-current protection	Fuse protection

¹ Certain VPP applications require additional service enrollment.

² Maximum round trip efficiency shown is calculated using the single cycle round trip efficiency (SCRTE) formula used by SGIIP administration in the State of California, as of the date of publication of this Spec Sheet.

³ Please observe our applicable warranty conditions.

⁴ Based on full system AC/AC RTE "round-trip efficiency" at ambient temperature of 25°C (77°F), beginning of life in off-grid mode. Test conducted by sonnen Inc. R&D. Backup data available.

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.

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