

## Tech Specs - ecoLinx 30

The ecoLinx 30 is an intelligent energy storage solution that uses the safest, longest-lasting batteries and integrates with solar to power your home and keep the lights on with cleaner energy. ecoLinx30 has the ability to pair with leading home automation systems and controllable breakers to provide you with the ultimate smart home – managing your household energy usage throughout the day, providing smart configurable backup power during grid outages and powering smart devices with solar energy, day and night.

Usable Capacity (100% DOD) <sup>1</sup>	30 kWh
Nominal power rating (off-grid output at 25 deg C)	8 kW
Nominal power rating (grid-tied output at 25 deg C)	7 kW
Weight (approximate)	1253 lbs
Dimensions W”/H”/D” (approximate)	52/61/19

### Off-grid specification

Continuous AC output current	33.33 A
Max power	100ms – 17 KVA
	5 s – 12 KVA
	30 m – 9 KVA
Max AC current (charge/discharge)	1 ms – 100 A
	100 ms – 70.7 A
	5 s – 50 A
	30 m – 37.5 A

## General specification

<b>Grid integration</b>	AC coupled
<b>Applications</b>	Self-consumption Backup power Time-of-use Energy automation
<b>Energy automation</b>	Smart configurable backup power Smart demand control / load management Smart weather forecasting integration
<b>Transfer switch</b>	Automatic, integrated
<b>Usable capacity</b>	2 kWh per battery module, with 15 modules
<b>Listed and recognized components</b>	System certified – UL9540; Battery modules – UL1973; Inverter – UL1741; Transfer switch – UL1008; AC Breaker – UL489
<b>Warranty</b>	15 year or 15,000 cycle system warranty – includes inverter, battery modules, cabinet and components <sup>2</sup>
<b>Inverter efficiency</b>	92.5% CEC weighted, 95.0% peak
<b>Roundtrip efficiency % (Grid&lt;&gt;Battery)</b>	>= 86%
<b>Temperature range</b>	41 °F - 113 °F
<b>Ventilation / Noise</b>	Cooling: Forced Air / <70DBA
<b>Comm. ports</b>	Ethernet
<b>Communication protocols / Control</b>	SunSpec Alliance / API available to select partners
<b>EMC / EMI protection</b>	FCC Part 15B
<b>Enclosure Rating</b>	NEMA 12
<b>Device Protection</b>	Short-circuit, Overload, Over-heating
<b>Over-current Protection</b>	50 A
<b>Total harmonic distortion</b>	<5% L1-L2 & <2% L-N

## Transfer switch specification

<b>Current rating</b>	200 amps switching & over-current protection
<b>Voltage rating</b>	120/240 VAC
<b>Transfer time</b>	< 100 ms
<b>Nominal frequency</b>	60 Hz

## Battery specification

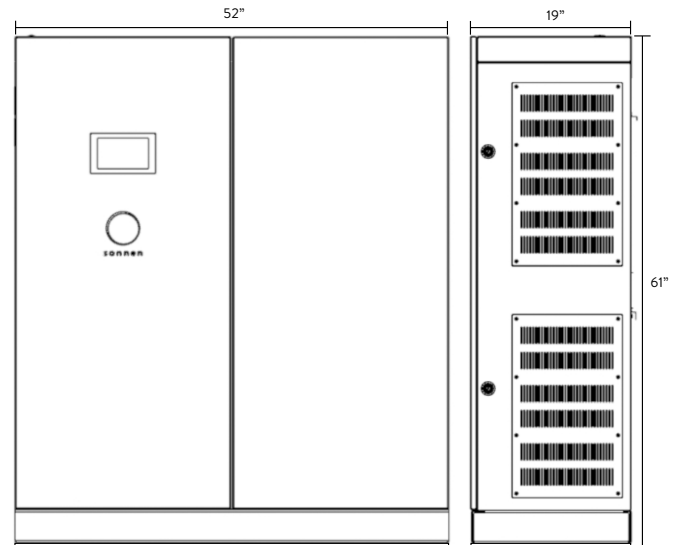


<b>DC battery input voltage</b>	44.5–53.5 VDC
<b>Max charge current</b>	50 A per module
<b>Cell chemistry</b>	Lithium Iron Phosphate (LiFePO <sub>4</sub> )
<b>Cell discharge</b>	2.0 kWh with 100% DoD
<b>Overcharge Protection</b>	MOSFET & Fuse protection

## AC specification

<b>AC grid voltage</b>	120/240 VAC (Split phase)
<b>Max AC grid current</b>	29 amps
<b>Nominal frequency</b>	60 Hz
<b>Adjustable frequency range</b>	+/- 0.7 Hz from nominal
<b>Metering capability</b>	Power meters for load and PV production (not revenue grade)
<b>Tare losses (W)</b>	60 watts
<b>Transient protection</b>	IEEE C62.41 Class B

## Measurements



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<sup>1</sup> The ecolinx Ndure battery modules are 2.5kWh in total capacity and represent 2kWh of usable capacity per module.

<sup>2</sup> Please observe our applicable warranty conditions.