



Tech Specs - sonnen ecoLinX 1.5


The sonnen ecoLinX is an intelligent energy storage solution that seamlessly integrates with leading smart home automation systems and controllable breakers to power your home with clean energy – managing your energy usage throughout the day, providing smart configurable backup power during grid outages and managing smart homes with solar energy, day and night.

	ecoLinX 12	ecoLinX 14	ecoLinX 16	ecoLinX 18	ecoLinX 20
Usable Capacity (100% DOD) ¹	12 kWh	14 kWh	16 kWh	18 kWh	20 kWh
Nominal power rating (off-grid output at 25 deg C)	8 kW	8 kW	8 kW	8 kW	8 kW
Nominal power rating (grid-tied output at 25 deg C)	7 kW	7 kW	7 kW	7 kW	7 kW
Weight (approximate)	724 lbs	777 lbs	830 lbs	883 lbs	936 lbs
Dimensions W"/H"/D" (approximate)	26/84/19				

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

Grid integration	AC coupled
Applications	Self-consumption Backup power Time-of-use Energy automation
Energy automation with 	Smart configurable backup power Smart demand control / load management Smart weather forecasting integration
Transfer switch	Automatic, integrated
Usable capacity	2 kWh per battery module, up to 10 modules
Listed and recognized components	System certified – UL9540; Battery modules – UL1973; Inverter – UL1741; Transfer switch – UL1008; AC Breaker – UL489
Warranty	15 year or 15,000 cycle system warranty – includes inverter, battery modules, cabinet and components ²
Inverter efficiency	92.5% CEC weighted, 95.0% peak
Roundtrip efficiency % (Grid<>Battery)	>= 86%
Temperature range	41 °F - 113 °F
Ventilation	Forced Air
Comm. ports	Ethernet
Communication protocols / Control	SunSpec Alliance / API available to select partners
EMC / EMI protection	FCC Part 15B

Transfer switch specification

Current rating	200 amps switching & overcurrent protection
Voltage rating	120/240 VAC
Certification	UL recognized component
Transfer time	< 100 ms
Nominal frequency	60 Hz

sonnen Inc.

2048 Weems Road, Suite C, Tucker, GA 30084
(310) 853-2404

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- The ecolinx Ndure battery modules are 2.5kWh in total capacity and represent 2kWh of usable capacity per module.
- Please observe our applicable warranty conditions.

Battery specification

DC battery input voltage	44.5–53.5 VDC
Max charge current	50 A per module
Cell discharge	2.0 kWh with 100% DoD
Overcharge Protection	MOSFET & Fuse protection

AC specification

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

Measurements

