

Outdoor Deep Cycle LFP Battery

LFP

Superior
performance

IP67

Outdoor
Rating

4000+

Enhanced
Cycle Life



Ecox 12100



Lighter

- 50% lighter than lead-acid batteries of the same capacity



Higher Charge/Discharge Rate

- 30% higher energy density than lead-acid batteries of the same capacity



Long-lasting

- Up to 4000+ cycles, maximizing your ROI



Remote Monitoring

- Built-in Bluetooth module, supports real-time battery monitoring via mobile devices



Scalable on Demand

- Supports up to 16 batteries in 1S16P ~ 4S4P configuration, with a maximum energy of 20.48 kWh

Applications



Electrical

Battery Type	LEP
Nominal Voltage	12.8 Vdc
Nominal Capacity	100 Ah
Internal Resistance	< 10 mΩ
Round-Trip Efficiency	99%
Self-discharge Rate	≤ 3% per month
Scalability	1S16P ~ 4S4P (20.48 kWh)
Maximum Continuous Charge / Discharge Current	100 A (128 kW)
Peak Discharge Current	200 A (2.56 kW) @30s
Recommended Continuous Charge Current	≤ 50A (640 W)
Recommended Charge Voltage	14 V ~ 14.4 V

Environmental

Recommend Storage Temperature	50 °F ~ 95 °F (10 °C ~ 35 °C)
Extreme Storage Temperature (For one month)	-4 °F ~ 140 °F (-20 °C ~ 60 °C)
Operating Temperature ¹	Discharge: -4 °F ~ 122 °F (-20 °C ~ 50 °C) Charge: 32 °F ~ 122 °F (0 °C ~ 50 °C)
Altitude	< 13123 ft (4000 m)
Relative Humidity	5%~95%, non-condensing

General

Dimensions	12.8 x 6.83 x 9.37 inch (325 x 173.5 x 238 mm)
Approximate Weight (lb / kg)	26.46 / 12
Terminal Type	M8 x 14 mm
Terminal Torque	9 ± 1 N·m
Housing Material	PC
Ingress Protection	IP67
Communication	BLE 5.0
APP	Battery Cloud
Cycle Life ²	> 4000 cycles
Warranty ³	3 years

Compliance

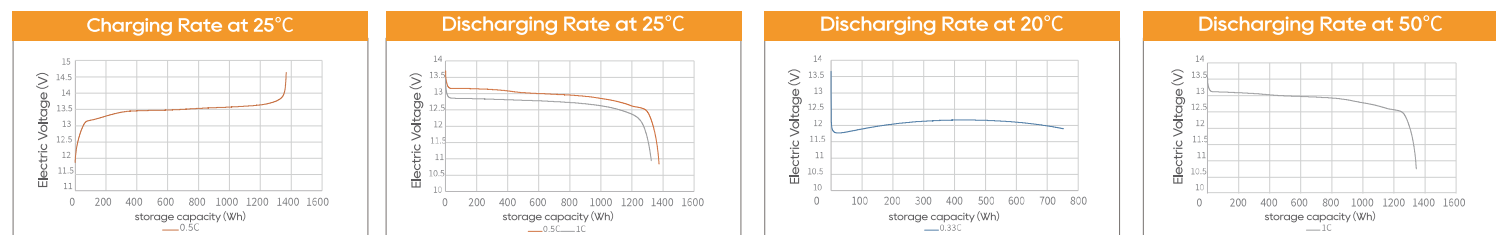
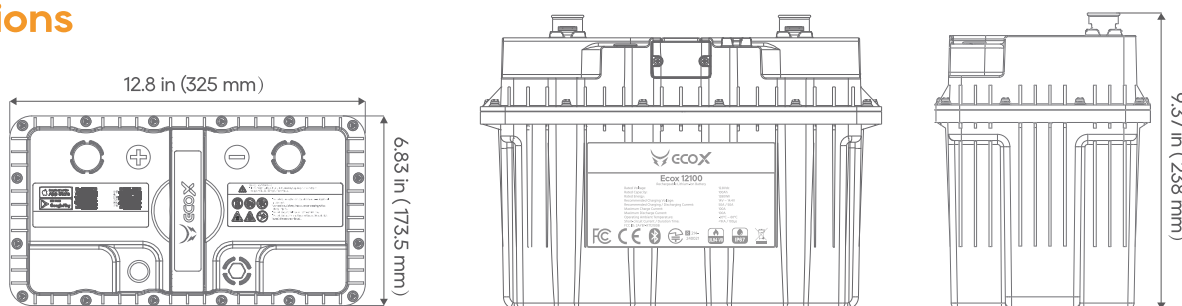
Certifications	IEC 62619, CE, UN 38.3, FCC
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1. Battery will not support charge when temperature is below 32 °F(0 °C).

2. Operating conditions: 77 °F (25 °C), 1C / 1C @ 80% DOD. Total throughput energy: (12.8 V × 100 Ah / 1000 × 80% × 4000 / 1000) × 80% = 3.28 MWh.

3. 3 years or 4000 cycles (whichever comes first). Optional extended warranty: additional 2 years (available for an extra fee).

Dimensions



* The above data is based on controlled environment test records, and actual usage may vary depending on external environmental conditions.