

Outdoor Deep Cycle LFP Battery

LFP

Superior
performance

IP65

Outdoor
Rating

4000+

Enhanced
Cycle Life



Ecox 12200



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 40.96 kWh



Self-heat

- Built-in heating film for low-temperature operation

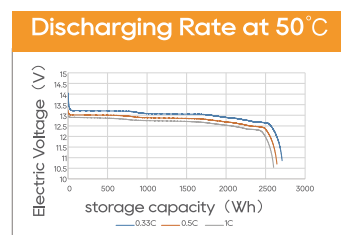
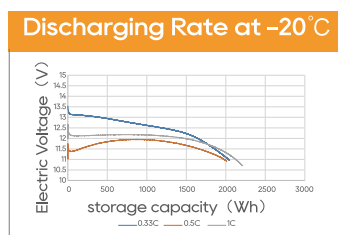
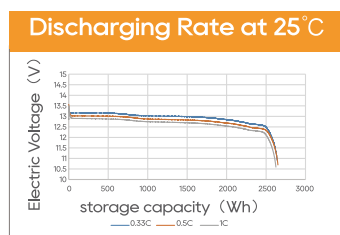
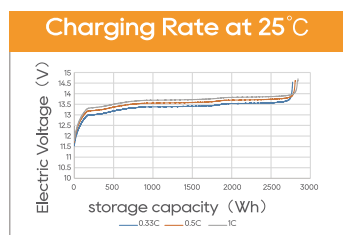
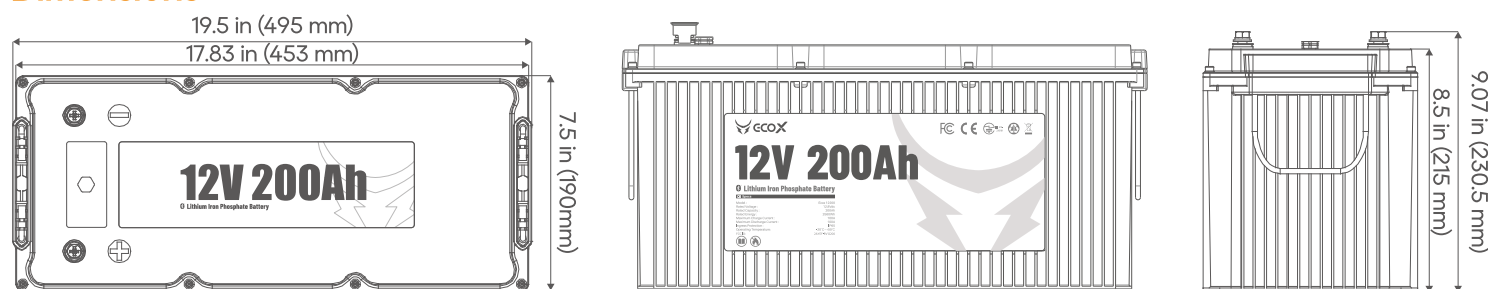
Applications



Electrical	
Battery Type	LFP
Nominal Voltage	12.8 Vdc
Nominal Capacity	200 Ah
Internal Resistance	< 10 mΩ
Round-Trip Efficiency	99%
Self-discharge Rate	≤ 3% per month
Scalability	1S16P ~ 4S4P (40.96 kWh)
Maximum Continuous Charge / Discharge Current	100 A (1.28 kW)
Peak Discharge Current	200 A (2.56 kW) @ 5 s
Recommended Charge Voltage	14 V ~ 14.6 V
Environmental	
Recommend Storage Temperature	23 °F ~ 95 °F (-5 °C ~ 35 °C)
Extreme Storage Temperature (For one month)	-40 °F ~ 140 °F (-40 °C ~ 60 °C)
Operating Temperature ¹	Discharge: -4 °F ~ 140 °F (-20 °C ~ 60 °C) Charge: 32 °F ~ 131 °F (0 °C ~ 55 °C)
Autitude	≤ 13123 ft (4000 m)
Relative Humidity	5%~95%, non-condensing
General	
Dimensions	19.5 x 7.5 x 8.5 inch (495 x 190 x 215 mm)
Approximate Weight (lb / kg)	45.98 / 20.9
Terminal Type	M8 x 1.25 x 14 mm
Terminal Torque	9 ± 1 N·m
Housing Material	PC
Ingress Protection	IP65
Communication	BLE 5.0
Heating Film	Support
APP	Battery Cloud
Cycle Life ²	≥ 4000 cycles
Warranty ³	3 years
Compliance	
Certifications	IEC 62619, CE, UN 38.3, FCC

1. When the temperature is below 32 °F(0 °C) and charging is required, please connect the charger to initiate heating. The battery will start to charge when cell temperature reaches 32 °F(0 °C).
2. Operating conditions: 77 °F (25 °C), 0.5 C / 0.5 C @ 80% DOD. Total throughput energy: (12.8 V × 200 Ah / 1000 × 80% × 4000 / 1000) × 80% = 6.55 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.

