Pytes

Outdoor Deep Cycle LFP Battery

Ecox 12200

LFP — Superior performance

IP65 — Outdoor Rating

4000+ — Enhanced Cycle Life

Light Weight

- 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

- Integrated Bluetooth 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-heating

- Built-in heating film for low-temperature operation

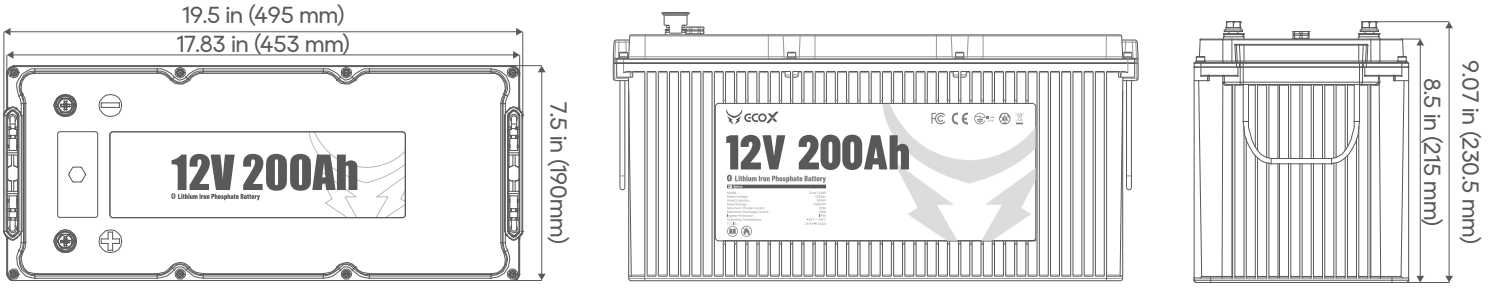
Applications

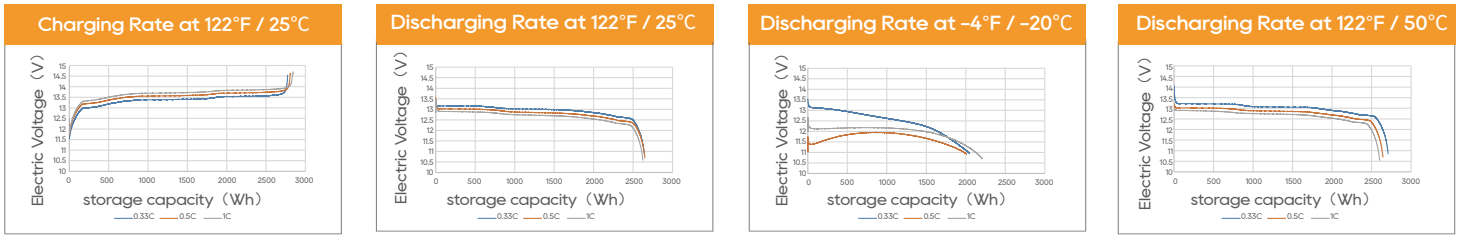
RV · Boat · Truck · Cabin

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
Altitude	⩽ 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	45.98 lb / 20.9 kg
Terminal Type	M8 x 1.25 x 14 mm
Terminal Torque	9 ± 1 N·m
Battery Case Material	PC
Ingress Protection	IP65
Communication	BLE 5.0
Heating Film	Integrated
APP	Battery Cloud
Cycle Life [2]	⩾ 4000 cycles
Warranty [3]	3 years
Compliance	
Certifications	IEC 62619, CE, UN 38.3, FCC

1. When the ambient temperature is between -4°F ~ 32°F / -20°C ~ 0°C , the heating film will activate to warm the battery until the temperature reaches the battery charging temperature range. External charging source (PV, grid, generator) is required for heating film operation.
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 2 year warranty extension availble for purchase.

Dimensions





* The above data is based on testing in a controlled environment. Actual performance may vary.

Pytes
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