

Ecox 12100



Features



Lighter

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



Higher Charge/Discharge Rate

- 30% higher energy density than lithium iron phosphate batteries of the same capacity



Long-lasting

- Up to 4500+ cycles, maximizing your return on investment



Remote Monitoring

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



Scalable on Demand

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

Application Scenarios

The Ecox 12100 is suitable for deep-cycle off-grid applications such as RVs, boats, trucks, and cabins, and can replace deep-cycle lead-acid batteries



Ecox 12100 Specs

Electrical

Nominal Voltage	12.8VDC
Nominal Capacity	100Ah
Internal Resistance	<10mΩ
Round-Trip Efficiency	99%
Self-discharge Rate	≤3% per month
Scalability	4S4P
Cycle Life	>4500
Maximum Continuous Discharge Current	100A
Maximum Discharge Current	200A@30s
Maximum Continuous Charge Current	100A
Recommended Continuous Charge Current	≤50A
Recommended Charge Voltage	14V~14.8V

Environmental

Recommend Storage Temperature	-4°F~140°F , -20°C~60°C
Discharging Temperature	-4°F~122°F , -20°C~50°C
Autitude	<4000m
Relative Humidity	5%~95% (no condensation)

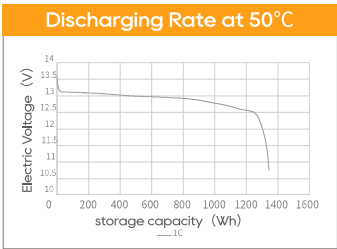
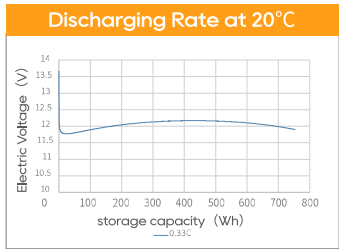
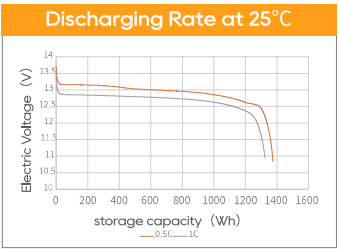
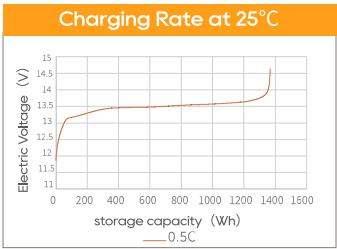
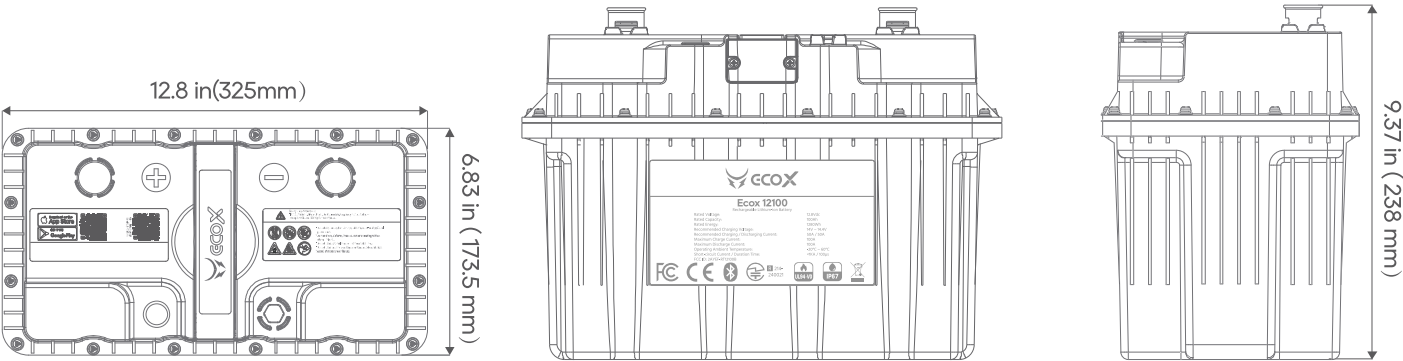
Mechanical

Dimensions	12.8 x 6.83 x 9.37 in (325 x 173.5 x 238mm)
Weight	approx 26.46 lbs (12kg)
Terminal Type	M8 x 14
Terminal Torque	9±1Nm
Housing Material	PC
Ingress Protection	IP67
Battery Type	LFP

Other

Certification	UN38.3, FCC, IEC 62619, CE
Communication	BLE 5.0
APP	Battery Cloud

Dimensions



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