

RB300-LT : Low-Temperature LFP Battery by RELiON



Price: CAD \$4,199.00

SKU: RB300-LT

Product Categories: [Batteries](#), [Lithium](#), [Multi-Use : 12V, >100Ah](#), [On The Road](#), [Pop Picks For Vans & RVs](#), [Shop](#)

Product Tags: [12v](#), [300ah](#), [8D](#), [8d lithium](#), [canada](#), [lfp](#), [lifepo4](#), [lithium](#), [low temperature](#), [rb300-lt canada](#), [reliion](#), [reliion canada](#), [reliion rb300-lt](#), [reliion rb300-lt canada](#)

Product Page:

<https://www.modernoutpost.com/product/rb300-lt-low-temperature-lfp-battery-by-reliion/>

Product Summary

The RB300-LT is RELiON's largest low temperature series LFP battery, designed to perform in colder climates where ordinary batteries dare not to tread. With its built-in cell warming system that draws power only from the charging source, the RB50-LT can charge in sub-zero temperatures, providing unmatched versatility. The

3400Wh practical capacity and standard 8D size make it an ideal choice for cabins, cottages, boats, and vehicles.

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RB300-LT : Ideal lithium battery for Canada!

Lithium chemistry is great at delivering charge to equipment & devices down to -20C, but ordinary lithium batteries will either stop accepting charge, or will severely restrict their charge acceptance rate, when the temperature gets down to 0C. So how do you charge, or solar charge a lithium battery below 0C? RELiON's LT series is the answer.

RELiON's LT Series batteries can safely charge at temperatures down to -20°C (-4°F) using a standard charger. The system features proprietary technology which draws power from the charger itself, uniformly heating the cells within the battery to 41°F (5°C), so that it can be charged at its full recommended current. LT batteries require no additional components such as heating blankets.

No additional equipment or charger settings are required. Simply plug the battery into your regular lithium charger and the internal heating and monitoring system takes care of the rest. Because it takes time to heat the cells, the charging process in below-freezing temperatures could take a little longer.

We recommend using an insulated enclosure to help the process.

The Low-Temperature Series battery has the same size and performance as other RELiON batteries but can safely charge when temperatures drop as low as -20°C using a standard charger. The RB300-LT is a perfect choice for use in off-grid solar, remote monitoring, and in any application where charging in colder temperatures is

necessary.

Compare the RB300-LT with Lead-Acid AGM... 8D : 12V, 280Ahr AGM

1700Wh useable, 500-1000 cycle life, 170lbs

RB50-LT : 12.8, 300Ahr LiFePO4

3400Wh useable, 3,000-5,000 cycle life, 71lbs

VALUE PROPOSITION:

2x the energy capacity, 4x the expected lifetime = 8x the total energy delivered.

Applications

- Backup Power - Marine - Recreational Vehicles - Solar - Camping

RB300-LT Specifications In Brief

- Voltage: 12.8V - Amp Hours: 300Ah - Recommended Charge Current : 15 A - 50 A

Maximum Charge Current : 100 A

Maximum Continuous Discharge Current : 100 A

- Peak Discharge Current : 200 A (7.5 s \pm 2.5 s) - BMS Discharge Current Cut-Off : 280 A \pm 50 A (9 \pm 4 ms) - Recommended Low Voltage Disconnect : 11 V

HEATING ELEMENT SPECIFICATIONS:

- Heating Temperature Range : -20 to 10°C (-4 to 41°F) - Heating Time Approximately 1.5 hr @ 15 A - Dimensions : 520 x 267 x 228mm / 20.5 x 10.5 x 9.0" - Weight: 34.54 kg / 76.1 lbs [Download the Complete Data Sheet](#)

Product Attributes

- Dimensions: 52 × 27 × 23 cm
- Weight: 35 kg