

RB48V100 : 4.8kWh Lithium Battery by RELiON



Price: CAD \$6,899.00

SKU: RB48V100

Product Categories: [Batteries](#), [Lithium](#), [Multi-Use : 48V](#), [Shop](#)

Product Tags: [100ah](#), [48v](#), [5kwh](#), [canada](#), [deep cycle](#), [iron phosphate](#), [lithium](#), [rb48v100](#), [rb48v100 canada](#), [reliion battery](#), [reliion rb48v100](#), [reliion rb48v100 canada](#)

Product Page:

<https://www.modernoutpost.com/product/rb48v100-4-8kwh-lithium-battery-by-reliion/>

Product Summary

The RELiON RB48V100 is a 48V 100ah lithium deep cycle battery designed to be a building block for higher capacity battery applications like cottages, cabins, yachts, and more. This lithium iron phosphate (LiFePO4) battery is ready to replace your lead-acid battery bank in your solar energy system or electric vehicle. It's powerful, rugged, and has an extremely long cycle life. The 48V100 battery can store more

energy and charge faster than lead-acid battery alternatives.

Product Description

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RB48V100 in Renewable Energy Applications

If you're looking for energy storage for your residential solar system for grid-tie or off-grid, this 48V lithium battery is a great option. Deep cycle batteries are a key component in off-grid solar electric systems, and for grid-tie or emergency backup power systems with or without solar. For renewable energy systems, the 48V100 battery is compatible with Outback, Schneider Electric, Magnum, Morningstar and many other leading brands of inverters and solar charge controllers.

All RELiON Batteries use the safest and most stable components. It is equipped with a LINYI Connector terminal type and a built-in battery management system (BMS). The BMS ensures a long lifetime, safe handling – and high-accuracy State of Charge (SOC) calculations.

Not all lithium batteries are created equal. All RELiON Batteries use the safest and most stable components, including a LiFePO₄ cathode and a built-in Battery Management System (BMS). The BMS ensures a long lifetime, safe handling – and high-accuracy State of Charge (SOC) calculations.

The RB48V100 Lithium

A Better Choice Than Lead-Acid AGM

The RB48V100 is ideal for industrial applications where you need a long lifespan and quick charge capability or in outdoor/recreational use where lighter weight and capacity are key. It's commonly used in the following applications: fish finder and flashers, robotics, scooters, solar lighting, remote power, security alarm systems,

camping, hiking and other deep cycle applications.

RELiON lithium batteries provide more energy for high consumption than traditional lead-acid batteries. They also offer ultra-fast charging and discharging, high efficiency and a longer cycle life - plus no maintenance!

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RB48V100 Specifications

ELECTRICAL SPECIFICATIONS

Nominal Voltage : 51.2 V

Nominal Capacity : 100 Ah

Energy 5120 Wh

Efficiency : 99%

Self Discharge : <3% per Month

Maximum Modules in Series : 1 (Single Use)

MECHANICAL SPECIFICATIONS

Dimensions (L x W x H) : 32.8 x 11.2 x 10.0" (832.4 x 285 x 255 mm)

Weight : 136.7 lbs (62 kg)

Terminal Type : M8 x 1.25

Case Material : Steel Case

Enclosure Protection : IP65

Cell Type : Cylindrical

Battery Chemistry : LiFePO₄

DISCHARGE SPECIFICATIONS

Maximum Continuous Discharge Current : 200 A

Peak Discharge Current : 250A (4 s ±1 s)

BMS Discharge Current Cut-Off : 300A (5 s)

CHARGE SPECIFICATIONS

Recommended Charge Current : 5 A - 50 A

Maximum Charge Current : 100 A

Charge Current : 32°F to 14°F (0 to -10 °C) ≤ 0.1 C

Charge Current : -4°F to 14°F (-20 to -10 °C) ≤ 0.05 C

Recommended Charge Voltage : 56.8 V - 58.4 V

TEMPERATURE SPECIFICATIONS

Discharge Temperature : -4 to 131 °F (-20 to 55 °C)

Charge Temperature* : -4 to 131 °F (-20 to 55 °C)

* Refer to the cold weather charging specifications

COMPLIANCE SPECIFICATIONS

Certifications : UN38.3 & CE (battery)

UL1642 (cells) (File# MH64523)

IEC62133 (cells)

Shipping Classification : UN 3480, CLASS 9

Download the Spec Sheet [Download the User Guide](#)]

Product Attributes

- Dimensions: 1 × 1 × 1 cm
- Weight: 139 kg