

RB10 : 10Ahr, 12V Lithium Battery by RELiON



Price: CAD \$249.00

SKU: RB10

Product Categories: [Batteries](#), [Lithium](#), [Multi-Use : 12V, 3-19Ahr](#), [Shop](#)

Product Tags: [10ahr](#), [12v](#), [canada](#), [rb10](#), [rb10 canada](#), [reliombattery.com](#), [reliombattery.com](#), [reliombattery.com](#)

Product Page:

<https://www.modernoutpost.com/product/rb10-10ahr-12v-lithium-battery-by-reliombattery.com/>

Product Summary

The RB10 10Ahr, 12V Lithium Battery by RELiON is their smallest and lightest deep cycle battery. The RB10 is a lithium iron phosphate (LiFePO4) battery. It has twice the power, half the weight and lasts much longer than its lead-acid counterparts.

Product Description

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The RB10 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!

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.

RB10 Specifications...

ELECTRICAL

Nominal Voltage : 12.8 V

Nominal Capacity : 10 Ah

Capacity @ 25A : 24 min

Energy : 128 Wh

Resistance : ≤ 90 m Ω @ 50% SOC

Efficiency : 99%

Self Discharge : <3% per Month

Maximum Modules in Series : 1

MECHANICAL

Dimensions (L x W x H) : 151 x 98 x 101 mm (5.9 x 3.9 x 4.0")

Weight : 1.65 kg (3.6 lbs)

Terminal Type : F2

Case Material : ABS

Enclosure Protection : IP56

Cell Type : Cylindrical

Chemistry : LiFePO4

DISCHARGE

Maximum Continuous Discharge Current : 10 A

Peak Discharge Current : 20 A (7.5 s \pm 2.5 s)

BMS Discharge Current Cut-Off : 30 A \pm 5 A (10 \pm 5 ms)

Recommended Low Voltage Disconnect : 11 V

BMS Discharge Voltage Cut-Off : 8 V (2.0 \pm 0.08 vpc) (100 \pm 50 ms)

Reconnect Voltage : 10 V (2.5 \pm 0.1 vpc)

Short Circuit Protection : 200-500 μ s

CHARGE

Recommended Charge Current : 0.5 A - 5 A

Maximum Charge Current : 10 A

Charge Current 32 $^{\circ}$ to 14 $^{\circ}$ F (0 to -10 $^{\circ}$ C) : \leq 0.1 C

Charge Current -4 $^{\circ}$ to 14 $^{\circ}$ F (-20 to -10 $^{\circ}$ C) : \leq 0.05 C

Recommended Charge Voltage : 14.2 V - 14.6 V

BMS Charge Voltage Cut-Off : 15.6 V (3.9 \pm 0.025 vpc) (1.0 \pm 0.5 s)

Reconnect Voltage : 15.2 V (3.8 \pm 0.05 vpc)

TEMPERATURE

Discharge Temperature : -4 to 140 $^{\circ}$ F (-20 to 60 $^{\circ}$ C)

Charge Temperature* : -4 to 113 $^{\circ}$ F (-20 to 45 $^{\circ}$ C)

Storage Temperature : 23 to 95 $^{\circ}$ F (-5 to 35 $^{\circ}$ C)

*Refer to charge currents below 0 $^{\circ}$ C (32 $^{\circ}$ F)

COMPLIANCE

Certifications : CE (battery)

UN38.3 (battery)

UL1642 & IEC62133 (cells)

Shipping Classification UN 3480, CLASS 9

[Download the Full Spec Sheet](#)]

Product Attributes

- Dimensions: 1 \times 1 \times 1 cm
- Weight: 3 kg