

# The BB10012 100 AH LiFePO<sub>4</sub> Battle Born Battery

*The highest quality and safest lithium ion technology at the fairest price on the market.*



## Built-in Battery Management System

- 100 Amps Continuous
- 200 Amps Surge for 30 Seconds
- 1/2 Second Surge for Larger Loads
- High/Low Voltage Protection
- Short Circuit Protection
- High/Low Temperature Protection
- Automatic Cell Balancing
- Dimensions (L x W x H):  
12.75 x 6.875 x 9

You've reached it: the pinnacle of rugged, reliable, deep cycle, lithium ion battery technology.

Weighing in at a sleek 30 lbs, the 100 amp hour, 12 volt Battle Born Battery runs circles around the competition. The Battle Born Battery also requires no new hardware to run in your boat, RV, trailer, or golf cart. Just pull out that grungy old lead acid battery (use two hands, those suckers are heavy), drop in this elegant upgrade, and get yourself out there.

All Battle Born Batteries are assembled in Reno, Nevada, USA.



**Get out there, stay out there.  
Order your Battle Born Battery today!**

Order at [battlebornbatteries.com](http://battlebornbatteries.com) or call toll-free 855-292-2831

# Eliminating Battery Anxiety with This Game Changing Battery Technology

## Lithium Upgrade and Install Tips

- Consult with your battery supplier or dealer to confirm compatibility with your system components, including converters, solar charge controllers and inverter chargers.
- Only purchase lithium batteries that have a Battery Management System built in.
- Choose a supplier that only sources cells from UL manufacturing sources.
- Confirm that your new battery bank can handle the loads of your RV before buying it.
- Keep your lead acid starting battery in your motorized RV.
- Properly recycle your old lead acid batteries.

## FAQs

### ***Where are your batteries made?***

All of our batteries are designed and assembled in Reno, NV, USA.

### ***Will this battery fit in the same spot as my current battery?***

Yes. We have multiple sizes that will drop right into most systems.

### ***Are your batteries safe?***

Yes. All of our batteries have a built-in battery management system to protect against fault conditions. We also only use LiFePO<sub>4</sub> cells, which are the safest and most stable types of lithium cells.

## Benefits

- At least double the power in the same physical space of lead acid.
- Can be discharged 100% vs lead acid recommended 50% depth of discharge.
- Can be installed indoors with no hydrogen gases generated, also no terminal corrosion.
- About 1/5 the weight of a lead acid battery, resulting in a significant weight reduction over your current battery bank.
- Output voltage is flat during most of the discharge cycle, increasing efficiency of your system.
- Can be charged up to 5 times faster than lead acid.
- Last 10 times longer than lead acid.
- Holds a charge for up to 1 year (without a load) without the need for a trickle charger.  
Great for unattended storage.

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## Programming a Victron SmartSolar Charge Controller Guide for BattleBorn Lithium Batteries

- (1) Open the Victron Connect App and select the Victron MPPT Solar Controller
- (2) Go to the settings screen (Gear in the upper right)
- (3) Click on the Battery menu
- (4) Select User Defined

From the User Defined settings menu you need to make these changes:

- (5) Absorption voltage: 14.6 volts (acceptable range is 14.4 to 14.6 volts)
- (6) Absorption Time: The recommended settings for our lithium batteries is half an hour per 100ah of LiFePO4 battery (for example if you have 2 -100ah batteries select 1 hour).
- (7) Float Voltage: 13.5 volts (13.6 volts or lower is acceptable for LiFePO4 batteries)
- (8) Equalization voltage: 14.4 volts (you do not need to equalize Lithium ion, you will have equalize turned off, but incase it ever runs a cycle the batteries will be fine at this voltage)
- (9) Temperature Compensation: should be disabled on Lithium Deep Cycle batteries because they do not need to be compensated, leave this off.
- (10) Low Temperature cut-off: Our Battle Born Batteries have low temperature charging protection built into the battery, its monitored by our Battery Management system which is also built in. You can leave this off too.
- (11) Go back to the main screen and click on the floppy disc icon on the top right. It'll be the first icon on the toolbar. This icon will save your settings, you can name it whatever you'd like. Once saved, you can back out of the unit and go back in to make sure the new correct settings have saved properly.