

The LiFePO₄ Battle Born Battery

The pinnacle of quality and safety at an unbeatable price point.

Please Read Before Installation

Model BB10012

100 Amp Hours

Deep Cycle Efficiency and Performance

This 12 volt 100 amp hour deep cycle LiFePO₄ battery offers 2 to 3 times the power in the same physical space as a lead acid. The stable chemical composition and built-in battery management system in our batteries provides you with safe and reliable power.

These low-maintenance batteries are a fifth of the weight of a comparable lead acid. Our batteries are capable of being discharged to 100% of their rated capacity every time. They can be charged 5 times faster than lead acid, so you can get out there and stay out there longer!

Our batteries are built to last 10 to 15 years and are backed by an industry leading 10-year warranty, making battery anxiety a thing of the past.



Specifications

- 100 Amp Hour 12 Volt Battery
- LiFePO₄ Chemistry
- 3000-5000 Cycles
- Dimensions: 12.75" (L) x 6.87" (W) x 9" (H)
- 31 lbs
- Operating Temp Range: -4°F to 140°F
- Waterproof and Sealed
- Designed and Assembled in the USA
- Built-in BMS (Battery Management System)

Charging Parameters

- Absorption Voltage: 14.2V to 14.6V
- Float Voltage: 13.4V to 13.8V
- Equalization Voltage: 14.4V (if applicable)
- Absorption time: 20 to 30 minutes per 100Ah battery bank
- No temperature compensation

Built-in Battery Management System

Our BMS keeps you and your battery safe and ensures your battery will last for many years.

- 100 Amps Continuous
- 200 Amps Surge for 30 Seconds
- ½ Second Surge for Larger Loads
- High/Low Voltage Protection
- Short Circuit Protection
- High/Low Temperature Protection
- Cold Charging Protection
- Automatic Cell Balancing

**Please Note: This built-in protection will reset after .5 seconds in most fault conditions. Disconnecting the battery from loads will also reset the BMS*



Get out there, stay out there.™

Questions? Call 855-292-2831 or email us at info@battlebornbatteries.com

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FAQs

Can LiFePO₄ batteries be mounted in any position?

Our batteries do not contain any liquid and do not emit any fumes or gases, so you can mount them in any position.

How can I check my battery's voltage?

If you do not have a battery monitor, you can purchase a multimeter to monitor the voltage of your batteries. Please reference the voltage vs capacity table for more information.

How do I properly store my LiFePO₄ batteries?

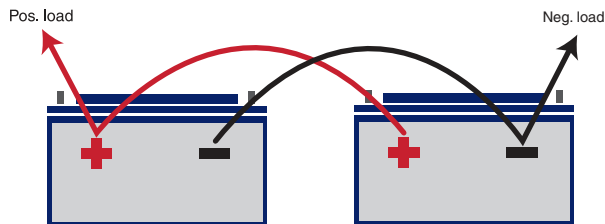
We recommend bringing the Battle Born Batteries to 100% state of charge. Then, disconnect the battery from any load by removing the negative cable from one battery. Doing this can result in your batteries only losing 3-5% of stored energy a month.

What's the maximum amperage I can charge my batteries?

Our batteries allow a charge of 50 amps per 100-amp hour battery bank. For more than one battery, you can simply take the entire amp hours of the bank and cut it in half (e.g. a total of 300-amp hours can be charged at 150 amps).

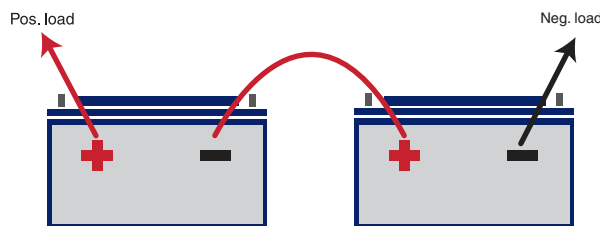
Is it necessary to charge my batteries out of the box?

Yes, if you are connecting your batteries in series you will need to charge your batteries out of the box. If you are connecting in parallel, then you do not need to. See the diagram below.



Parallel Connection 12v 200Ah bank

Increases Ah, Voltage stays the same.



Series Connection 24v 100Ah bank

Increases Voltage, Ah stays the same.

Voltage vs Capacity

**For a single battery*

Voltage Level	Remaining Capacity	
14.4V	100%	*Charging
13.6V	100%	*Resting
13.4V	99%	
13.3V	90%	
13.2V	70%	
13.1V	40%	
13.0V	30%	
12.9V	20%	
12.8V	17%	
12.5V	14%	
12.0V	9%	
10.0V	0%	

Quick Installation Tips:

- Torque specifications - 9 to 11ft-lb.
Do NOT finger tighten
- There is no need for ventilation with our batteries, making it possible to put in enclosed areas.
- Our batteries do not emit any fumes or gases, so you can mount them in any orientation that is suitable for you.
- Do NOT reverse the polarity of the battery, as this will damage both the battery and the device connected.
- The batteries come equipped with a 3/8" hole on the terminal to fit a 5/16" bolt.

Please see the manual for additional installation instructions.

Warranty

Every Battle Born Battery is backed by an industry leading 10-year warranty. Your batteries are assembled in Reno, NV, making it easier and quicker in the event of a warranty issue!

Warranty is non-transferable.

Visit battlebornbatteries.com for additional warranty information.

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