

# The LiFePO<sub>4</sub> Battle Born Battery

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

Please Read Before Installation

DESIGNED AND ASSEMBLED IN  
**USA**

## Model BB10012H

### 100 Amp Hours Deep Cycle Efficiency and Performance

This 12 volt 100 amp hour deep cycle LiFePO<sub>4</sub> battery offers 2 to 3 times the energy in the same physical space as a lead-acid battery. The stable chemical composition and built-in battery management system in our batteries provides you with safe and reliable power. The BB10012H uses a proprietary, low draw heat technology to keep your battery warm and ready to charge no matter what weather you may face.

These low-maintenance batteries are a fifth of the weight of a comparable lead acid battery. 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 a 10-year warranty, making battery anxiety a thing of the past.



### Specifications

- 100 Amp Hour, 12 Volt Battery
- LiFePO<sub>4</sub> Chemistry
- Battle Born Internal Heat Technology
- 3000-5000 Cycles
- Dimensions:  
12.76" (L) x 6.86" (W) x 8.95" (H)  
\*See QR Code below
- 31 lbs.
- Operating Temp Range:  
-4°F (-20°C) to 135°F (57.2°C)
- Water Resistant and Sealed  
(Batteries should not be submerged)
- Designed and Assembled  
in the USA
- Built-in BMS  
(Battery Management System)
- Made with Cylindrical Cells

### Charging Parameters

- Absorption Voltage:  
14.2V to 14.6V
- Float Voltage:  
13.4V to 13.8V
- Equalization Voltage:  
14.4V (if applicable)
- Absorption Time:  
30 minutes  
per 100Ah battery bank
- Charge Rate: .5c
- 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 Loads Over 200 Amps
- High/Low Voltage Protection
- Short Circuit Protection
- High/Low Temperature Protection
- Cold Charging Protection
- Automatic Cell Balancing at Top of Charge

*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.™



\*QR Code

Questions? Call 855-292-2831 or email us at [info@battlebornbatteries.com](mailto:info@battlebornbatteries.com)

# The LiFePO<sub>4</sub> Battle Born Battery

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## BB10012H FAQs

### How long does it take for the heat function to work?

The heater will activate when the internal temperature of the battery reaches 35° F. If the battery has been exposed to below freezing temperatures for a long time without the heater enabled, it will take 2 to 4 hours for the internals of the battery to heat up enough for the battery to take a charge.

### How much power does the heat function consume?

On average the internal heating function consumes about 1.8 amps. Our tests show at 0° F with no insulation, the heater function is on about 30% of the time.

### How do I properly store my BB10012H batteries?

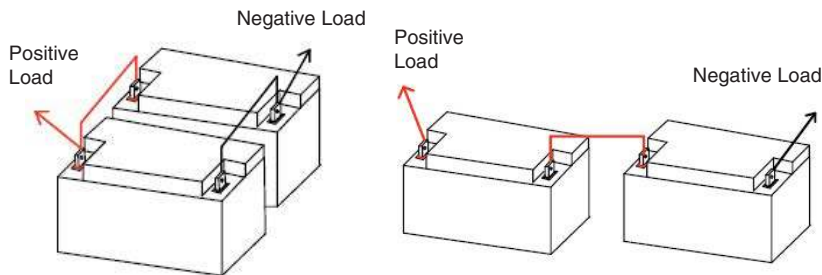
We recommend bringing the Battle Born Batteries to 100% state of charge. Then, disconnect the battery from any load by removing the negative cable from one battery. By disconnecting this way, your batteries only losing 3-5% of stored energy a month. To deactivate the heat enable function for storage, simply disconnect the heat enable jumper wire from the heat enable post.

### 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.

### 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 charge out of the box. 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.



FAQ QR Code

### For more FAQs, scan the QR code!

To use the QR code, open the QR reader or camera on your smart phone. Hold your device over the QR code so that the code is clearly visible within the device's screen. Your phone will automatically scan the code and pull in the corresponding weblink.



Battery Line  
QR Code

### Check out our other models!

To see our other battery models, go to [battlebornbatteries.com/product-category/lifepo4-batteries/](http://battlebornbatteries.com/product-category/lifepo4-batteries/) or scan the QR code to the left.

**Get out there, stay out there.™**

## Voltage vs Capacity

For a single battery at 0A

Voltage Level	Remaining Capacity	State
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
- Our batteries do not require ventilation since they do not emit fumes or gases, so you can put them in an enclosed areas.
- Our batteries can be mounted 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 either a 3/8" or 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](http://battlebornbatteries.com) for additional warranty information.



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