



BB1250 / BB1250H

50 Amp Hour • 12 Volt • LiFePO₄ Battery



Li-Ion vs. Lead Acid Batteries

1/5 of the Weight

5x Faster Charging

> 10x Longer Lifespan

2x - 3x More Power

Features

Maintenance Free

100% Depth of Discharge

10-Year Warranty

Heated Options Available

Certified and Tested To Industry Safety Standards



*Class 1, Division 2 Listing is Not Applicable for Heated Version

Specifications

- 50 Amp Hour, 12 Volt Battery
- LiFePO₄ Chemistry
- 3,000 to 5,000 Cycles
- Dimensions (L x W x H):
10.49" x 7.11" x 8.95"
- 22 lbs.
- Operating Temp Range:
-4°F (-20°C) to 135°F (57.2°C)
(Batteries should not be submerged)
- Water Resistant and Sealed
- 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
50Ah battery bank
- No Temperature Compensation

Headquartered in
Reno, Nevada, USA



Built-In BMS

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

- 60 Amps Continuous
- 100 Amps Surge for 30 Seconds
- 1/2 Second Surge for Larger Loads
- 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 five seconds in most fault conditions. Disconnecting the battery from loads will also reset the BMS

Questions? Call 855.292.2831 or email us at info@battlebornbatteries.com

BB1250 / BB1250 FAQ'S

Can LiFePO₄ batteries be mounted in any position?

You can mount our batteries in any position. Our batteries use a non-liquid based chemistry and do not emit any fumes or gases. When mounting, make sure to properly secure and protect your terminals.

How can I check my batteries 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 on the right.

How do I properly store my LiFePO₄ batteries?

We recommend bringing the Battle Born Batteries to a 100% state of charge. Then disconnect the battery from any loads by removing the negative cable from one battery. On average, the batteries lose approximately 2-3% capacity per month. This is subject to increase if placed in extreme environmental conditions while in storage.

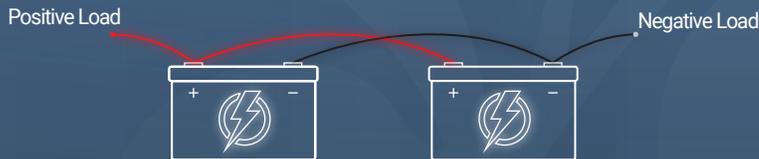
What is the maximum amperage I can charge my batteries?

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 100-amp hours can be charged at 50 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.

GET OUT THERE. STAY OUT THERE.



Parallel Connection 12V 100Ah Bank
Increases Ah, Voltage stays the same.



Series Connection 24V 50Ah Bank
Increases Voltage, Ah stays the same.

Voltage vs. Capacity

for a single battery

Voltage Level	Remaining Capacity
14.4V	100%
13.6V	100%
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 11 ft-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 enclosed areas.
- Our batteries can be mounted in any orientation that is suitable for you.
- DO NOT reverse the polarity of 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 an issue!

Warranty is non-transferable.

Visit battlebornbatteries.com for additional information.

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