



# Battle born battery size

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Lightweight at just 31 pounds for 100Ah of usable power power. Long-Lasting with ...

Whether you have an RV, marine vessel, van, or off-grid property, batteries are an essential piece of your electrical system and ability to store and use power. When your factory-installed system isn't cutting it anymore, or you're ready to add more power and capabilities to your current system, determining which batteries are right for you can certainly be a process. With an abundance of battery chemistries, brands, and form factors available on the market today, it can be difficult to sift through the electrical jargon. To assist you with your battery-buying decision, we've crafted this Battle Born Batteries Buying Guide that will walk you through each step of the process. Let's dive in!

First and foremost, you need to determine which battery chemistry would be best suited to your application. When it comes to deep cycle batteries, lead acid and lithium are the primary chemistries available. Although lead acid batteries have been used for decades, the rapid advancement of lithium-ion chemistry over the last few years has led many lead acid users to make the switch. So, what is the difference between the two, and how do you determine if lead acid or lithium is what you need?

While various types of lead acid batteries have historically been the go-to deep cycle power source for years, they pale in comparison to lithium-ion batteries in every category. In addition to being heavier, less powerful, and toxic, traditional lead acid batteries require regular maintenance and monitoring. The ratio of water to liquid electrolyte in these batteries must be carefully maintained to avoid permanently damaging them. Along with ensuring the batteries never drop below a 50% state of charge, lead acid batteries are far from a "set it and forget it" system. Lithium-ion batteries are maintenance-free, meaning you can spend more time doing what you love and less time worrying about your power.

After comparing lithium with lead acid, it's clear that lithium batteries are the superior choice for deep cycle house power. In a market saturated with lithium batteries, the next challenge is deciding which one to purchase. Despite the term "lithium-ion battery" being used interchangeably, there are actually six different types of lithium batteries. Each type of lithium battery relies on unique active materials and chemical reactions to store energy, and has applications for which it is best suited. When it comes to deep cycle house batteries, lithium iron phosphate (LiFePO<sub>4</sub>) is the preferred choice due to its durability, long life cycle, and safety.

Once you've narrowed your search down to LiFePO<sub>4</sub> batteries, another point of differentiation is the cells that make up the batteries. While many other LiFePO<sub>4</sub> battery brands are composed of prismatic or pouch cells, Battle Born Batteries use the highest quality cylindrical cells. Cylindrical cells allow for passive cooling, more efficient distribution of internal pressure, and the ability to continue functioning if one cell malfunctions, taking the safety and reliability of Battle Born Batteries to the next level.



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In addition to being composed of higher quality components, many still wonder what makes a premium brand, such as Battle Born Batteries, stand out above the rest. Although they come with a higher price tag, Battle Born offers unprecedented excellence that can't be found in the myriad of imported batteries. Quality is prioritized, starting from a selection of top-quality raw materials sourced from long-standing, trusted suppliers. Then, on-site production in Reno, Nevada allows for increased quality control, ensuring each battery is crafted to meet the highest standards and pass rigorous testing.

As a premium battery brand, Battle Born Batteries prioritizes the highest quality and utmost safety but don't just take our word for it. The following Battle Born Battery models have been stringently tested to comply with the highest safety standards, complying with UL standards, UN 38.3 certifications, CSA C22.2 standards, and IP65 ratings. Accordingly, they have been listed to the various standards they conform to, including:

To receive these listings and certifications, each of these batteries was sent to third-party labs for rigorous testing. Each listing includes a variety of tests that put the batteries in the most extreme conditions possible. Ensuring we were able to pass these tests and receive these certifications has allowed us to manufacture the safest batteries on the market.

It's no wonder why consumers and OEMs around the world trust Battle Born Batteries to provide reliable and long-lasting power. With over 250,000 batteries in the field, nomads across the country are enjoying the benefits of premium batteries. Even some of the biggest names in the RV industry, including Airstream, Keystone, Tiffin, Forest River, Ember, Coachmen, ATC, and nuCamp, have upped their off-grid power offerings with Battle Born Batteries.

Our product offering doesn't end with the industry's best lithium-ion batteries. Taking a comprehensive approach to complete system integration, our team provides you with everything that you need for your ideal power system. Battle Born Batteries's deeply knowledgeable Technical Sales Team is educated in the most current technology and is a short phone call away to start discussing your specific energy needs. Based at our headquarters in Reno, NV, our team is ready to help you achieve energy independence with expertise and resources you can trust.

After deciding which chemistry and battery brand is right for you, the next challenge is determining the size of the battery that you need. This will vary depending on the space you have available and your power requirements. Battle Born Batteries offers a wide range of battery sizes and form factors to ensure we have one that will suit your application.

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