



# Kings 300ah lithium battery review

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Not long ago, going off-grid meant going completely without power. You might have had a gas generator you could turn on for emergencies. But this is inconvenient at best. With a gas generator, you have to haul fuel out to wherever your off-grid location is. As a result, there's a practical limit to how much fuel you can supply. For most people, you can't run an off-grid gas generator 24/7.

But solar power has changed that. Set up enough solar panels, and you can power pretty much anything. Sunlight is free, and you don't have to mess around with fuel delivery. In most places, a solar array will let you run your electronics 24/7. That said, solar power has an obvious drawback. It only works as long as the sun is shining. So, what are you supposed to do at night?

When you set up an off-grid solar array, it's essential to install a set of deep cycle batteries. These batteries will slowly charge during the daytime while there's excess solar power. At night, your power system will seamlessly switch over to battery power. If you're in the kitchen cooking, you won't even notice the change-over.

While standard residential power delivers 120 volts, solar backup batteries deliver 12 volts. There are a couple of reasons for that. To begin with, 12-volt batteries have multiple applications.

They can be used for RVs, boats, and campers. A manufacturer can make a single battery and sell it for multiple applications. Home solar inverters are also designed specifically for 12-volt batteries. Solar batteries are also designed to fully discharge without sustaining any damage. This makes them different from your car's 12-volt battery, which is designed to be used with an alternator.

We're about to review three of the best 12V 300Ah LiFePO4 Lithium Batteries we could find. All of these batteries have a substantial amount of capacity, and can be wired in series and parallel. They're also very durable, with the ability to withstand thousands of charge and discharge cycles.

The CHINS LiFePO4 Battery 12V 300Ah Lithium Battery is a big, beefy boy. It measures 20.47 inches wide, 10.59 inches thick, and 8.66 inches tall. At 68 pounds, it's the heaviest battery of the bunch. However, there's a pair of nylon rope handles that make it easy to carry. Besides which, it's not like you'll be hauling the battery around after it's installed.

The housing is made from a durable plastic. This material is very rugged, and will last for well over a decade without warping or cracking. The main part of the housing is black, with some labeling and basic information printed on it. The upper portion is bright orange, with a smooth surface where water won't pool up.

Speaking of water, this battery has a weather-resistance rating of IP65. It's not marine-rated, nor can it be



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submerged. But if it's sitting out in the rain, it's not going to get damaged. Incidentally, it's also impervious to dust, so you don't have to worry about installing it in a dry environment.

The CHINS battery is rated to last for a minimum of 2,000 duty cycles. This means it can be fully charged and discharged 2,000 times, and retain 80% of its original capacity. This is backed by a three-year manufacturer's warranty. Beyond that, CHINS will continue to provide free customer support for an additional seven years.

This battery is rated to deliver 12.8 volts of power. That's a bit more than 12 volts, but it's good to have a little bit extra on a brand new battery. In total, the terminals can deliver up to 200 amps of continuous current. To put that in perspective, a standard residential outlet is wired for 15 amps. Even if your off-grid cabin is wired for 20 amps, you'll be able to power 10 outlets.

You'll also get 600 amps of surge power. This can last for five seconds before the internal safety system limits the current. Surge power is essential if you're running a compressor-driven device like a fridge or an air conditioner.

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