



# Lithium 24v trolling motor battery

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Marine batteries for electronics, starting outboards and powering 24-volt or 36-volt trolling motors have come a long way in the last 20 years. Where we basically had a cranking battery and a deep cycle lead acid battery for our trolling motors, now we have a plethora of options from AGMs to Lithium and of course still lead acids. The marine batteries of today are some of the best trolling motor batteries and best marine electronics batteries we've ever had at our disposal.

With all this new technology in batteries, especially around lithium options, it's created a lot of misinformation and made it more complicated to find the right battery for your setup and budget. This piece will share a ton of hands-on experience on the best marine batteries and trolling motor batteries out there today and how each one and each company handles their batteries. We will give you a bunch of good options you can trust.

We have also interviewed several of the engineers for today's batteries and will follow up with a comprehensive guide to lithium power in another piece shortly. In addition, we have individual reviews of each battery coming shortly as well.

Of all the lithium options out there, we have the most experience with Dakota Lithium. I have run Dakota Lithiums for the last two years. I have used the 12V 100AH batteries and have charged them with both the Dakota Lithium 10A charger and the Minn Kota MK550PCL LiFePO4 compatible charger. Our team in Minnesota has run multiple configurations of Dakota Lithiums on the ice, in boats and in kayaks.

What we have loved is how well these batteries manage their power and how consistent they always are. I have tested them to several extremes: fishing hard on hot above 100-degree days as well as fishing on below freezing days. I've gone up to four trips without charging them and had them finally go to sleep on my fifth trip. And I'm always able to wake them easily by just plugging them up to their Dakota 12V charger.

The best part is I now charge them after every use and they are never below 75% on my trolling motor batteries or my electronics battery. They are charged and ready to rock in under an hour most days. It's pretty incredible how well they hold up and provide clean, consistent power. Additionally, they make some great lithium chargers in 12V, 24V and 36V options.

Dakota Lithium has been providing stable lithium power for longer than a lot of other brands, and their batteries are some of the most proven in a wide plethora of applications. They offer some of the most robust options as well as, considerably, the widest array of options to fit any scenario or need you could have in fishing. Even their smaller batteries are solid choices for kayak fishing and ice fishing applications as we've used them a bunch for both.



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Of all the lithium batteries we've tested, LiTime 12V 100Ah Bluetooth Trolling Motor Lithium Battery stands out for its reliability and power efficiency. I've been using LiTime's 12V 1280Wh lithium battery for a variety of applications, from marine setups to off-grid systems, and I've been thoroughly impressed. Our team has tested LiTime batteries across multiple scenarios--on boats, in RVs, and during camping trips--and they've consistently delivered excellent performance.

What we've appreciated most is how well these batteries manage power, especially in demanding conditions. Whether it's the heat of a summer day on the water or freezing temperatures while camping, LiTime's batteries have handled it all.

One of the most notable features is the battery's Bluetooth 5.0 connectivity. I can monitor my battery's status in real-time and manage its discharge with ease. The low-temp cut-off protection is another standout, ensuring the battery performs safely in temperatures as low as -20°. Whether I'm running a trolling motor in the middle of a lake or using it for off-grid power, it's reassuring to know the battery is protected in extreme conditions.

Millertech is one of the more impressive lithium battery options out there with more than 15 different options of lithium batteries for anglers and boaters with more in design now. They have a battery to fit every application a fisherman may need. Their prices range from \$329 up to \$1,499 covering a lot of bases in batteries that will last you 5-10 years, sometimes much longer depending on usage.

We spent a lot of time testing their batteries in a variety of situations from powering electronics, starting an outboard and powering a trolling motor. Their battery management system (BMS) is very well designed, and we never encountered the first problem. It hardly seemed that the batteries even got drained down. I ran the Millertech Dual Purpose 12V 135Ah lithium battery for several trips without charging and it was still more than 50% charged. A very impressive battery to say the least.

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