

# Do new batteries need charging

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As new technologies have come out, li-ion battery manufacturers have made a lot of changes to the way batteries work. People have made up a lot of misunderstanding about how to use these batteries, especially about lithium ion battery first charge.

This made people who used these batteries wonder about important things about them. As the number of people who use lithium-ion batteries grows every day, more and more questions in use come up.

Many people still stick to the old way of lithium ion battery first charge before use. This is because nickel-based batteries, which were more common in the 1990s, had to be fully charged before they could be used for the first time.

A lithium ion battery first charge is also fine, there is no problem if the li-ion battery isn't fully charged the first time, and it won't hurt your device to charge it all the way up, because the li-ion battery has a BMS protection system to prevent overcharging.

For example, 1C charging rate means that the battery can be fully charged in 1 hour, and 0.5C means that it takes 2 hours. It is recommended to charge the lithium-ion battery at 0.2C rate, which is safe and can maintain the healthy life of the battery.

Each full charge and full discharge make up a full cycle. The only reason manufacturers recommend lithium ion battery first charge before use is to teach people to charge their devices when they need to, and make sure the battery has enough power. Because a over-discharge could be bad for the battery.

Before your lithium ion battery first charge, it will already be partly charged. Because it needs to maintain about 45% of the power during the period when the battery is not used. But then, for a new 12v 100ah lithium-ion battery charge may take about 5 hours to reach 100%. You don't have to leave it plugged in overnight to fully charge it.

In fact, most lithium-ion batteries made today are made with fast-charging technology, which means that the first time you charge a li-ion battery, may only take half the time normally required. If your device has this kind of technology, don't worry if your lithium ion battery first charge is done in a very short amount of time. Check the instructions on your battery pack to see how long it will take to charge.

One of the best things that li-ion battery manufacturers do is put BMS for the battery to stop charging too much. So, you don't have to worry if you forget to unplug your device during your lithium ion battery first charge. The battery can protect itself from overcharging and short circuit.

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Compare the reading to a battery chart to find out how good your battery is. Most 98 percent batteries have a voltage of 12.5V. This shows that the battery is still in great shape. A battery with a 50 percent charge should be at 12.05V. If the voltage and percentage of your battery don't match up, there is something wrong with the battery. You can now go on with the lithium ion battery first charge.

Before the lithium ion battery first charge, it has some energy, so it should also be stored charged. Ideally, it should be stored at about 45% of its capacity. After a lithium ion battery first charge, it needs to be stored at a low temperature, not below 0°C, but ideally between 5°C and 10°C, and need to avoid storage in humid environment.

After your lithium ion battery first charge, it's best to let them run down a little bit every now and then. Shallow discharge are better than full ones because they put less stress on the battery. This makes the battery last longer.

Contact us for free full report

Web: <https://sumthingtasty.co.za/contact-us/>

Email: [energystorage2000@gmail.com](mailto:energystorage2000@gmail.com)

WhatsApp: 8613816583346

