

Life lithium battery

In the world of batteries, lithium batteries have a special place. They are rechargeable batteries. You can use them multiple times by charging them as many times as you need until their lifespan reaches. The lifespan of a battery is a period during which it perfectly powers up electronic devices and does not lose more than 20% of its total capacity.

Do you want to know, "How long do lithium batteries last?" The guide below presents a comprehensive answer to this query, including the battery's lifespan, how you can extend it, and much more. Let's get deeper into the discussion.

As we all know, a range of batteries is available on the market, such as lead-acid batteries, nickel-cadmium batteries, lithium batteries, nickel-metal hydride batteries, and the list continues. When it comes to the overall performance and lifespan, lithium batteries are more efficient and last longer than all others. This ability has made them stand out in the market.

Among all deep-cycle batteries, the lithium battery lifespan is the longest one. Many lithium batteries can last for 3,000 to 5,000 partial cycles. On the other hand, a lead-acid battery can only give 500 to 1,000 partial cycles. This number is quite low compared to lithium batteries.

Lithium batteries are also categorized into different types, such as lithium-ion, lithium iron phosphate, lithium polymer, and lithium manganese oxide. Each has a different lifespan. For example:

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Batteries are indeed the most expensive component of any electronic or electrical device. You will always want to increase its lifespan to avoid repetitive investments in buying new batteries after a short period. This section explains how you can prolong the lifespan of your lithium batteries efficiently. Here are the things you must keep in mind.

Always use a charger designed explicitly for lithium batteries. Simply put, use a charger provided by the manufacturer. The reason behind this fact is that the original chargers are known for prolonging their lifespan because they receive the correct current and voltage. Hence, the damage is protected.

When a battery is in operation and is exposed to high temperatures, this situation can trigger electrolyte oxidation and increase SEI thickness. It may lead to a reduced lifespan or capacity loss. Therefore, whenever you store a battery, make sure it is not exposed to extreme heat or high temperatures.

It is always recommended to use or store your battery at a moderate temperature, ranging from 5 degrees

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Celsius to 20 degrees Celsius. In other words, try storing a lithium battery at room temperature. Doing this will help your battery last longer and perform well throughout its lifespan.

Many consumers are not aware of this fact, and they usually recharge a battery when it is completely discharged. A good practice is to discharge and charge lithium batteries partially. It will enable them to perform their functions for a more extended period than a typical lifespan.

Though the fast charging feature can charge your lithium battery in no time, it is not good for the battery's health. When a battery is fastly charged, it generates an excessive amount of heat. It is a great danger to the battery's internal components. Keeping this fact in mind, always avoid fast charging and discharging.

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