

Storing lithium ion batteries in winter

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Lithium-ion batteries have become an essential part of our daily lives. They power our smartphones, laptops, electric vehicles and a wide range of devices that we use every day. However, as the winter season approaches, it's important to think about how to store your lithium batteries properly to avoid damage.

In this blog post, we'll discuss everything you need to know about storing lithium batteries for the winter season.

Lithium-ion batteries are sensitive to temperature changes and humidity levels. When exposed to low temperatures or extreme heat, they can suffer from degradation that impacts their performance. In fact, a fully charged lithium battery stored at 0°C (32°F) can lose up to 20% of its capacity in just one year.

Therefore proper storage is crucial if you want your lithium battery to maintain its optimal performance over time.

The ideal storage temperature for most lithium-ion batteries is between 15°C (59°F) and 25°C (77°F). It's essential not only during winters but throughout the year too. If possible, find a cool dry place inside your house where temperatures don't drop below freezing point.

If you don't have access to such location then try using insulation materials like foam boxes with tight-fitting lids or an insulated garage space where temperature fluctuations can be controlled easily.

While it may seem logical that storing fully charged batteries would be best so they're ready when needed again; however excessive charge also degrades the life span of these cells rapidly & it's recommended by experts not storing them at full charge level because doing so could cause irreversible damage due to overcharge / discharge cycles after prolonged periods without usage which leads into premature aging of the battery. It's best to keep them charged at around 50-70% level.

If you're storing your lithium-ion battery in a device such as a laptop, tablet or smartphone over winter break, remove it if possible. Batteries that are kept long periods under load can cause capacity loss and this could affect its performance when you start using the device again.

It is better to remove the batteries from devices and store them separately following above mentioned guidelines for storage.

Here are some additional tips to ensure your lithium-ion batteries are stored safely during the colder months:

• Charge your battery before storage--do not store a dead battery. • Use proper packaging for

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shipment or prolonged storage. Store in an upright position with terminals facing upwards. Do not expose batteries to open flames or extreme temperatures (above 60°C/140°F).

Storing your lithium-ion batteries correctly is essential if you want them to perform optimally when needed again. The most important factor is choosing a cool dry place where temperature fluctuations can be easily controlled throughout the year. You should also remember that keeping these batteries complete charge will degrade their performance so try not leaving fully charged cells in long term storage.

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