

## Kongres Container

# Lithium battery packs are all empty



## Overview

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When these batteries discharge to approximately 3.0 volts per cell, they are typically considered empty. What happens if lithium-ion batteries are not stored properly?

If lithium-ion batteries are not stored properly, they could lose capacity, have a shortened lifespan, or even start a fire. Some best practices for storing lithium batteries run contradictory to intuition.

How to store lithium batteries & cells?

Another important tip for storing lithium batteries and cells is to not store them on things that could fall over or collapse. Finally, make sure to not store your batteries fully charged. The best voltage to store lithium batteries and cells at is around 60 to 70 percent of their maximum charge voltage.

Do lithium batteries need to be covered?

When storing lithium-ion batteries and cells, the terminals should be covered to prevent any possibility of a short. If you are storing lithium battery packs, it's a good practice to put tape over the connections to make sure they don't bump into anything conductive that could cause a short.

Should lithium batteries be stored fully charged?

The general consensus among experts is to store lithium batteries at about 50% to 60% of their capacity. Storing them fully charged can put extra stress on the battery, while storing them completely discharged can cause them to enter a deep discharge state, which is harmful.

Do lithium batteries drain when not in use?

Yes, lithium batteries do drain when not in use, thanks to self-discharge. The rate of self-discharge depends on the battery's quality, age, and storage conditions. On average, lithium batteries lose about 2-3% of their charge per month when stored properly.

How long do lithium ion batteries last?

Lithium-ion batteries can last from 300-15,000 full cycles. Partial discharges and recharges can extend battery life. Some equipment may require full discharge, but manufacturers usually use battery chemistries designed for high drain rates. How does storage/operating temperature impact lithium batteries?

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