

# What is the voltage of a cylindrical lithium titanate battery





## Overview

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What is a lithium titanate battery?

The lithium titanate battery (LTO) shares many characteristics with the lithium-ion battery. One difference is the LTO anode. An LTO battery uses lithium titanate oxide, while a lithium-ion battery uses carbon. By using lithium titanate, the battery has a significant performance improvement.

Why do lithium batteries have different voltage levels?

Lithium batteries have different voltage levels primarily due to variations in chemical composition and construction. For instance, lithium-ion (Li-ion) and lithium-polymer (Li-Po) cells generally have a nominal voltage of around 3.6 to 3.7 volts, while lithium iron phosphate (LiFePO<sub>4</sub>) batteries operate at around 3.2 volts.

Why is lithium titanate better than carbon anode?

Thanks to the higher lithium-ion diffusion coefficient in lithium titanate compared to traditional carbon anode materials, LTO batteries can be charged and discharged at high rates. This not only drastically reduces charging time—often to just about ten minutes—but also has minimal impact on the cycle life and thermal stability of the battery.

How many volts does a lithium battery have?

The voltage of lithium batteries typically ranges from 3.2 to 3.7 volts per cell, depending on the chemistry. The capacity, measured in milliampere-hours (mAh) or ampere-hours (Ah), can vary significantly, usually ranging from 500 mAh to over 5000 mAh. The capacity impacts the battery's run time and suitability for different devices.



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