# Lithium batteries are divided into cells and battery packs



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What is the difference between battery module and battery pack?
Battery Module: A group of interconnected battery cells that increases voltage and capacity compared to individual cells. It includes wiring and connectors and may feature a basic battery management system (BMS) for monitoring. Battery Pack: A complete energy storage system containing one or more modules.

What are the components of a battery?
In modern energy storage systems,batteries are structured into three key components: cells,modules,and packs. Each level of this structure plays a crucial role in delivering the performance,safety,and reliability demanded by various applications,including electric vehicles,renewable energy storage,and portable devices.

What is a lithium-ion battery pack?
A lithium-ion battery pack is the largest and most complex assembly in the hierarchy of battery systems. It consists of multiple modules arranged in a specific configuration to meet the voltage and energy requirements of a particular application.

What are the different types of lithium ion battery cells?
Lithium-ion battery cells come in three main formats: cylindrical,prismatic,and pouch cells. Cylindrical battery cells were the first lithium-ion batteries to achieve mass production. They're made by winding the cathode,anode,and separator in a specific order into a cylinder shape and then housing it in a metal casing.

To review its structure more specifically, a battery cell can be further disassembled into the following components: Anode (Negative Electrode): Anode is typical made of lithium or ...