

# Pack battery structure





## Overview

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What are the different types of battery pack structures?

This article provides a brief introduction and comparison of the current mainstream battery pack structures: CTP (Cell To Pack), CTC (Cell To Chassis), CTB (Cell To Body), and CTM (Cell To Module). CTP stands for Cell To Pack, meaning that the cells are directly assembled into the battery pack.

How a battery pack works?

In the battery pack, to safely and effectively manage hundreds of single battery cells, the cells are not randomly placed in the power battery shell but orderly according to modules and packages. The smallest unit is the battery cell. A group of cells can form a module. Several modules can be combined into a package.

What are battery cells & modules & packs?

Battery cells, modules, and packs are different stages in battery applications. In the battery pack, to safely and effectively manage hundreds of single battery cells, the cells are not randomly placed in the power battery shell but orderly according to modules and packages. The smallest unit is the battery cell. A group of cells can form a module.

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.



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### [Understanding Battery Cells, Modules, and Packs](#)

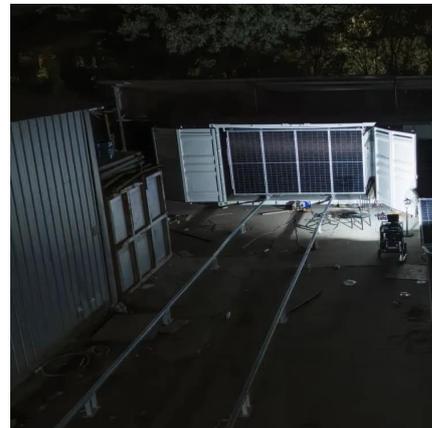
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Learn the differences between battery cells, modules, and packs. See how each layer works, why BMS and thermal systems matter, and where these components fit in EVs ...

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Discover how battery cells, modules, and packs work, their engineering roles, and practical guidance for safe and efficient design.

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Explore the key elements of a power battery--cells, modules, and packs. Learn how they form the core of EV and ESS technology, and the role of lithium-ion battery pack assembly



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Battery packs play a critical role in powering modern technology, from electric vehicles to portable electronics. This article explores the components, manufacturing ...

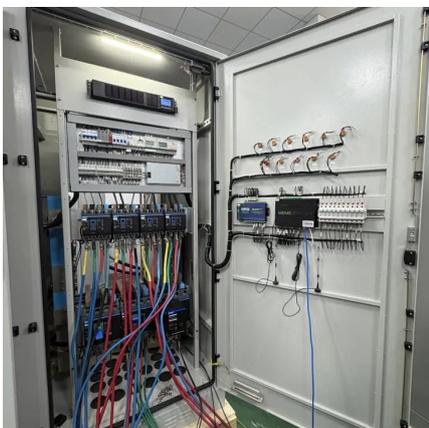
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## [Comparison of Battery Pack Structures](#)

Explore the key differences between CTP, CTC, CTB, and CTM battery pack structures for electric vehicles. Understand the advantages and disadvantages of each design ...

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