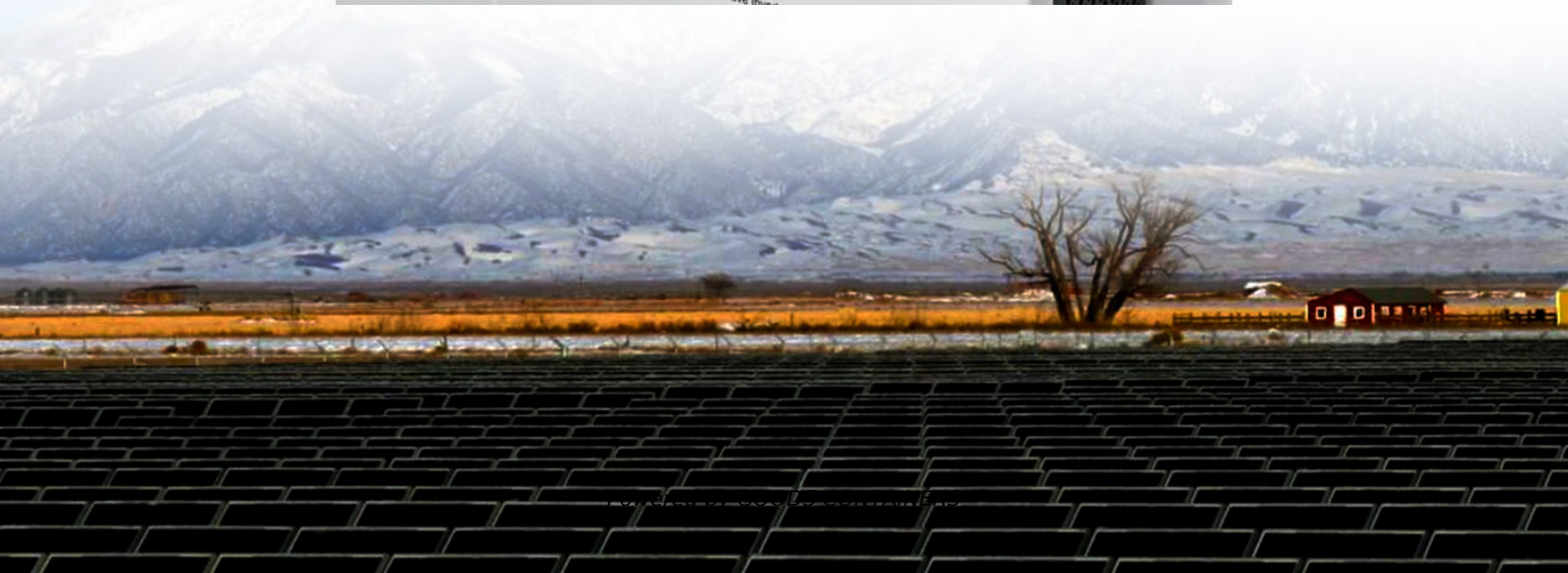


Battery arrangement of solar container lithium battery pack





Overview

What is a lithium battery pack and its casing?

What's a Lithium Battery Pack and Its Casing?

A typical Li-ion battery pack consists of:

- The Enclosure: Usually split into an upper cover and a lower case (or tray).
- Li-ion Cells: The core energy storage units.
- High-Voltage (HV) Components: Connectors, busbars, etc., for power transfer.

How to design a battery pack?

The dimensions of battery packs also require a design to space evaluation. The occupied volume of the pack should be suitable for the related car chassis. As previously mentioned in Section 1, CTP and CTC are two different strategies for packaging design. These approaches differ from the modular one.

What is a battery pack structure?

(See Fig 1: Basic Battery Pack Structure) The enclosure holds all these parts securely and mounts the entire battery system to the EV chassis or boat structure.

- Lower Case/Tray: This is the workhorse. It bears most of the weight of the cells and internal components and requires significant structural strength.

What is a battery enclosure?

While the battery cells themselves get a lot of attention, the enclosure – the box that holds everything together – is just as critical. It's more than just a container; it's a vital structural component, a protective shield, and the interface between the battery and the vehicle or boat.

1 What's a Lithium Battery Pack and Its Casing?



Battery arrangement of solar container lithium battery pack



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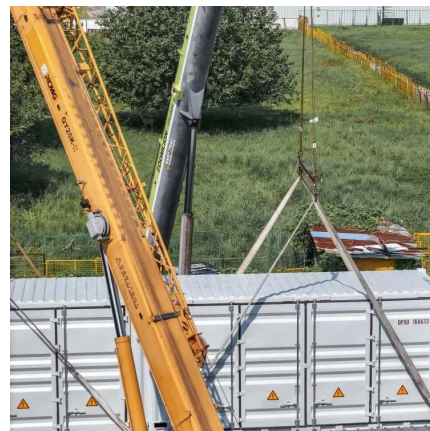
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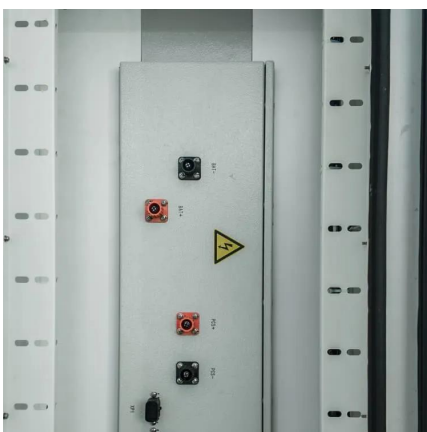
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