

Pure electric vehicle solar container lithium battery pack





Overview

What are the components of an EV battery pack?

- Low-Voltage (LV) Components: Connectors, wiring harnesses for communication and control (like the Battery Management System – BMS). (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.

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?

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What materials can SABIC provide for electric vehicle battery packs?

Depending on material and design requirements, SABIC's Specialties business can provide a number of materials for electric vehicle battery packs, including bus bar holders, covers, brackets, end plate assemblies and enclosures for battery management systems, control units, fuses and relays, etc.

Why is a high voltage battery pack enclosure important?

High voltage (>60 V) electric vehicle battery pack enclosures can contribute significant weight to the overall battery pack, impacting its specific energy (Wh/kg). Certain high performance engineering thermoplastic materials can replace traditional metals, saving weight and easing the burden of cumbersome processing.



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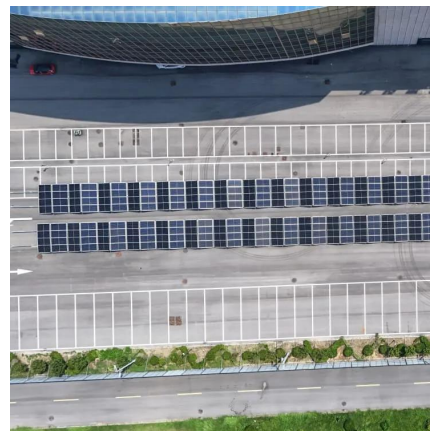
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The large RETRON 4000 is ideally suited for storing and transporting large quantities of lithium-ion batteries, for example from e-cars.



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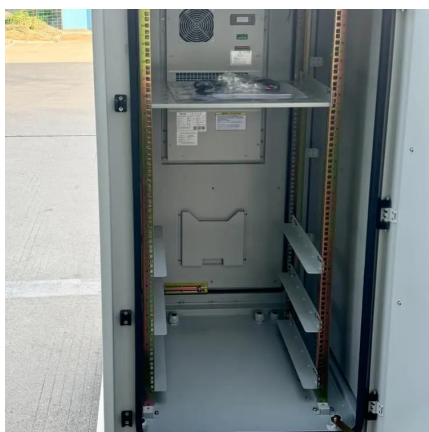


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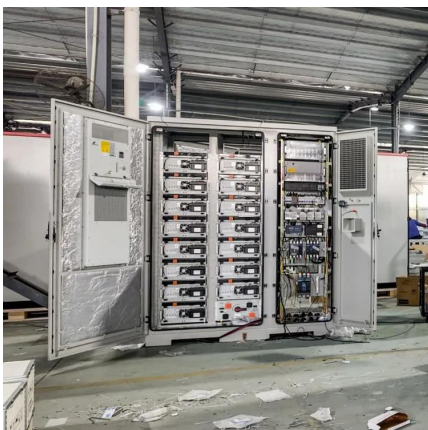


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