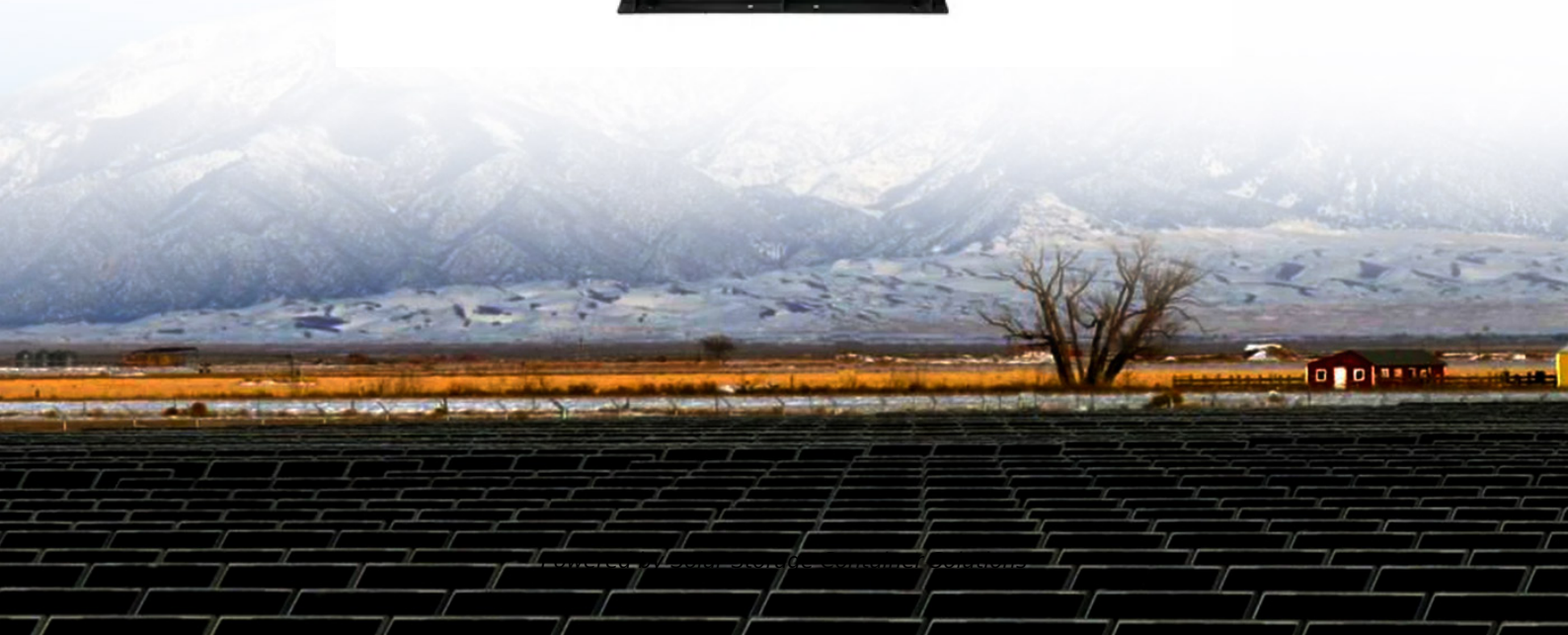


## Solar Storage Container Solutions

# What is the new energy power battery pack



## Overview

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How important is a battery pack for a new energy vehicle?

For new energy vehicles, the key component that affects vehicle safety is the battery pack. As the carrier of the battery, the importance of the battery pack cannot be underestimated. The strength, rigidity, heat dissipation and waterproof of the battery pack body should meet high design requirements (Feng and Hu, 2020).

How is the battery pack of a new energy vehicle simulated?

In this paper, the battery pack of a new energy vehicle is studied, modeled and simulated by the finite element method. Hypermesh, ANSYS and other simulation analysis software are used to analyze the static strength and dynamic modal properties.

Should the new energy vehicles industry pay more attention to battery pack structures?

Comparing with traditional vehicles, the new energy vehicles industry should pay more attention to safety of power battery pack structures. The battery pack is an important barrier to protect the internal batteries.

What are the components of a battery pack?

The main components of the battery pack have six parts. The outside is composed of the housing upper cover, the housing base and the lug connecting pieces. The upper cover and the base are connected by bolts, and the inside is composed of battery modules, fixing plates of battery modules and high liquid cooling plates, etc.

What is a battery pack in a car?

The battery pack studied in this article is a lithium battery pack, which is located in the center of a car chassis. Its total power is 22 kWh, the battery capacity is 60 Ah, and the total voltage of the battery is 353 V.

How much does a battery pack weigh?

The battery pack is 1700 mm long, 1200 mm wide, and 210 mm high. The cover and the box are formed by stamping and die-casting aluminum steel, respectively. The entire box is fixed to the frame by 10 fixing bolts through connectors (Fig. 2a). Above, the weight of the entire box is about 235 kg. The main components of the battery pack have six parts.

## What is the new energy power battery pack

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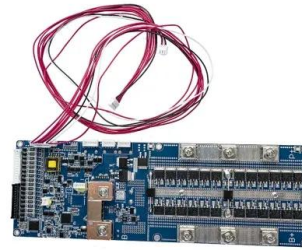


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