

# What is the cold plate of the battery cabinet





## Overview

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What is a battery cold plate?

Built with lightweight aluminum, the battery cold plate stabilizes battery cell temperature and provides optimal temperature uniformity. Featuring counterflow and double-side cell loading designs, it extracts heat from the lithium-ion battery cells and enables fast charging. Copyright © 2025 Dana Limited. All Rights Reserved.

What are EV battery cold plates?

Electric vehicle (EV) battery cold plates are essential components designed to manage the thermal conditions of EV batteries. These plates play a crucial role in maintaining optimal operating temperatures, which is vital for both performance and longevity.

How effective are EV battery cooling plates?

The material of an EV battery cooling plate often plays a role in how effective these air-cooling solutions can be; aluminum plates are common due to their excellent thermal conductivity and lightweight properties.

Why is battery cooling important?

Battery cooling is not just an afterthought; it is a critical aspect of electric vehicle design that directly influences efficiency and lifespan. An effective cooling system ensures that the battery operates within safe temperature limits, preventing overheating that could damage cells or reduce overall capacity.



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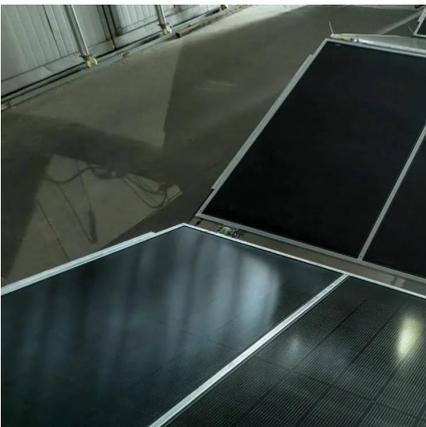


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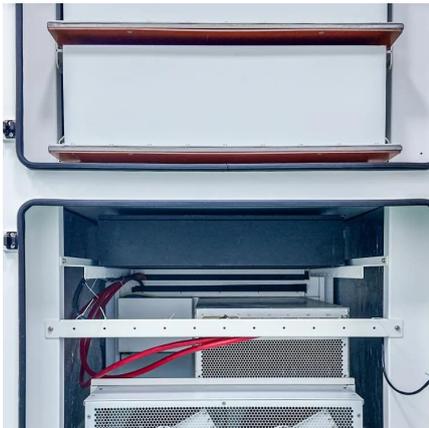
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