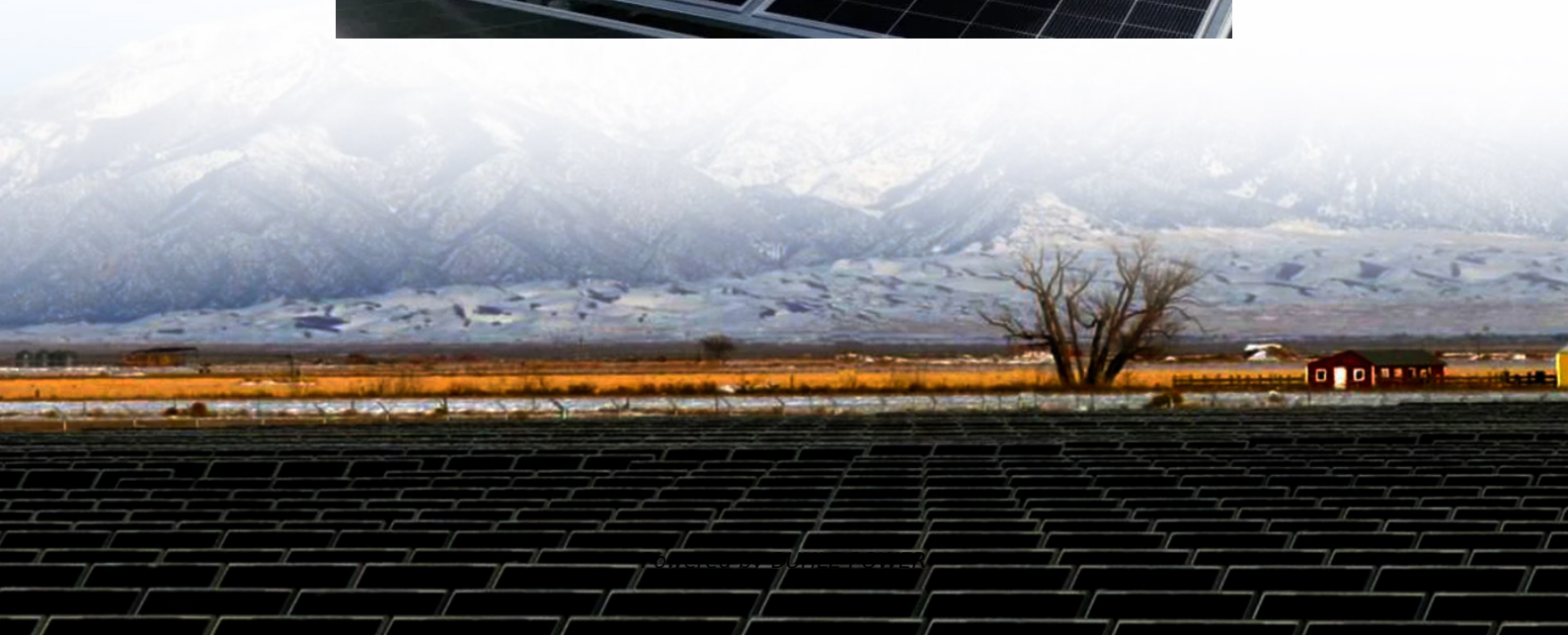


Battery Pack Trends





Overview

What are the current trends and challenges in EV battery design?

This article reviews the current trends and challenges in EV battery design, focusing on the transition from modular to cell-to-pack (CTP) arrangements, a significant development that deserves attention. Original equipment manufacturers (OEMs) are exhibiting no clear preference for cell-to-pack or cell-to-chassis designs.

What will EV battery pack design look like in 2024?

In 2024, a critical focus in EV battery pack design is on thermal management systems. As batteries operate optimally within specific temperature ranges, manufacturers are investing in innovative cooling and heating technologies.

What is a cell-to-pack (CTP) battery?

Cell-to-pack (CTP) designs integrate battery cells directly into the battery pack, eliminating intermediate modules to enhance energy density and simplify manufacturing. Cell-to-chassis (CTC) designs incorporate the battery cells directly into the vehicle's chassis, optimizing space, reducing weight, and improving structural integrity.

Do Original Equipment Manufacturers prefer cell-to-pack designs?

Original equipment manufacturers (OEMs) are exhibiting no clear preference for cell-to-pack or cell-to-chassis designs. Cell-to-pack (CTP) designs integrate battery cells directly into the battery pack, eliminating intermediate modules to enhance energy density and simplify manufacturing.



Battery Pack Trends



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EV Battery Pack Market size was valued at USD 37.6 billion in 2024 and is anticipated to reach USD 97.1 billion by 2032, at a CAGR of 12.6% during the forecast period.



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