

What is a battery housing & why is it important?

In a battery electric vehicle, the battery housing fulfils safety functions such as electromagnetic shielding and flame retardancy. Composites like sheet moulding compounds (SMCs) offer significant potential in the production of battery housings.

How to develop a battery cell housing?

There are no standard solutions for the development and production of battery cell housings. Therefore, it is crucial to have a flexible partner with the expertise and competence to cover the entire process, from development to production.

What is a battery housing?

The battery housing is the central safety component that must meet the highest standards in terms of sealing, electrical conductivity, mechanical strength, and much more. It essentially consists of a battery lid /cap and a battery can - including the critical interface between these two components.

How do battery cell sheets be aligned?

In battery cell manufacturing, two primary methods of aligning cell sheets are stacking and winding. During cell stacking, also called "Z folding," an alignment machine picks up a single piece of electrode anode or cathode, wraps it in separator material, and then places the remaining anode or cathode on top of the separator.

Here, the HFQ technology can increase the structural performance such as the housing top cover with reduced radii and draft angle in the exoskeleton structure. This leads to a maximized ...

In this study, a graded lattice design framework is developed based on topology optimisation to effectively tackle the multidisciplinary objectives associated with battery housing.

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Batteries according to embodiments of the present technology may include a housing including a first terminal disposed on a first side of the housing and a second terminal disposed on the first side of ...

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These materials are increasingly replacing steel and aluminium in housings to enhance sustainability, improve efficiency, and reduce emissions. Considering these advancements, this ...

The battery pack is enclosed by 2 half-housings on all sides; with appropriate design of the connection zone, the thermal bridge effects can also be minimized here; the battery pack is also fixed here via ...

A geometrically simple battery housing can be designed using stainless steels as a deep-drawn shell. The advantage of this approach lies in its sealing and less elaborate manufacture compared to the ...

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The battery housing (B: HOUSE#174;) has an approx. 15 mm thick GVI#174; insulation - open on one side. The insulating effect is sufficient to keep the battery pack at operating temperature for more than 12 hours ...

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Composites like sheet moulding compounds (SMCs) offer significant potential in the production of battery housings. However, to achieve both electromagnetic shielding and flame ...

Pre-competitive Project Objectives Exploit steel's strength, ductility, and cost benefits to develop a sustainable and cost-effective design concept for a battery enclosure structure that is ...

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