

Heat exchanger battery housing

Their primary function is to transfer heat between the battery coolant circuit and an external circuit, maintaining optimal operating conditions. ...

(54) BATTERY MODULE AND BATTERY SYSTEM WITH HEAT EXCHANGER HOUSING

(57) Provided is a battery module, comprising a liquid-tight housing and a plurality of battery ...

Heat transfer rate via conduction occurs in plane walls of the battery, such as electrodes and separator. Thermal resistance depends ...

A heat exchanger integrated into an electric vehicle's battery pack enclosure is provided, where the heat exchanger conduits are mechanically and thermally coupled to the inside surface of ...

What Is a Battery Cooling Plate? Cold Plates provide localized cooling of devices by transferring heat from the device to a liquid that flows to a ...

813 - Hose; water box; heater; Wheel housing; Pump; intake manifold; supply pipe; return line; For high-voltage system; heat exchanger; Hybrid battery; with; Air conditioning; and; Auxiliary ...

The heat dissipation structure also has connections between the contact points to maintain the gap. The structure is made of a material with higher thermal conductivity than the ...

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A heat exchanger for thermal management of battery units made-up of plurality of battery cells or battery cell containers housing one or more battery cells is disclosed.

Battery housing, a protective casing encapsulating the battery, must fulfil competing engineering requirements of high stiffness and effective thermal management whilst ...

FIG. 1 shows a heat exchanger (1) according to the invention comprising a chamber (5) for housing a battery unit, the battery unit being cooled by the heat exchanger (1).

According to an example embodiment is a heat exchanger for a battery unit having a first battery module and a second battery module, the first battery module comprising a plurality of battery ...

Definitions the present invention relates to a battery module and a battery system allowing for efficient and



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homogeneous tempering of battery cells. Adequate temperature control of each ...

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Integrated battery pack heat exchanger system for electric vehicles that provides efficient heat transfer while utilizing vehicle surfaces. The system involves integrating the heat ...

In general, the HFQ process allows tight radii and low draft angle in the stamping process. These advantages for the design of battery housing parts enable an optimized ...

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