

[0021] The end plate of a battery module provided by the present application includes a main body and an energy absorbing body, after the battery module is assembled, if ...

This paper presents a new design of a prismatic battery cooling plate with variable heat transfer path, called VHTP cooling plate. The grooves on the VHTP layer are utilized to change the heat transfer path between the coolant and the local battery surface, aiming to alleviate temperature non-uniformity on the battery surface.

(2) In some researches, cooling plates are employed to dissipate heat from the heat source at the battery cell level. A power battery typically adheres to a packaging configuration known as "cell-module-battery pack". The cooling plate is tasked with cooling battery module which comprises an assembly of several battery cells.

The preparation method of the end plate of the battery module for the new energy vehicle comprises the following steps: S1, melting raw materials to obtain molten aluminum; S2, ...

A battery module and a new energy vehicle. The battery module comprises a case (1), battery cells (2), and a heat dissipation member (3). An accommodating recess (11) ...

16.2.2 Methodology. The primary stage of numerical analysis is creating a domain justifying cell condition as such solid or fluid. The geometry of the cold plate is developed using Ansys cad design modeller and then transferred to volume meshing using Ansys ICEM CFD Mesher (Fig. 16.2). The deviation in output results is dependent on the quality of mesh which is calibrated ...

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The invention discloses a new energy battery module, which comprises a protective shell, a new energy

New energy battery module end plate principle

battery and a battery flow monitoring system, wherein the protective shell is provided with a plurality of battery flow monitoring devices; the new energy battery module is provided with the protective shell, the explosion-proof cavity is internally provided with the plurality of explosion ...

The present application relates to the field of battery production techniques and, particularly, relates to an end plate of a battery module and a battery module.

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