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Title: Low temperature 21700 battery factory pack

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What is a 21700 cylindrical lithium battery?

In the present study, the 21700 cylindrical lithium battery is used. The battery has positive and negative electrodes, the electrolyte, and the separator. Fig. 2 (a) and (b) are schematic diagrams of the 5 × 6 and 2 × 15 models of the battery pack, respectively.

Does a 21700 battery have a reversible heat generation?

Due to the importance of this issue, in this investigation, both experimental and numerical studies are conducted on the cooling of the 21700 battery and battery packs with two distinct arrangement designs of 5 × 6 and 2 × 15. The electrochemical model is utilized to predict the battery's irreversible and reversible heat generation.

What is the temperature distribution of a battery pack?

At the 1C discharge rate, most of the battery pack temperature shows a dark blue temperature distribution with maximum temperature about 36 °C, and at the 2C discharge rate, the temperature of the battery pack gradually produces a light blue temperature distribution with maximum temperature about 51 °C.

What is the maximum surface temperature of a battery pack?

The maximum surface temperature is about 95 °C at fully discharge. Such a high temperature is already at the critical value of thermal runaway of the battery, indicating that the battery pack may catch fire at any time. Fig. 9.

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The results indicated that 5 × 6 battery pack offers greater heat dissipation performance at the battery's entrance and exit. However, at the center, the temperature ...

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