
The rated temperature and its uniformity of lithium-ion (Li-ion) battery (LIB) pack are the main demands for safe and efficient operation. This paper investigates an air cooling ...

This study experimentally investigates two air cooling models for a lithium-ion battery pack to evaluate its thermal performance for different air velocities and three discharge ...

This function was then used to create a dynamic loading of the battery heating model. Subsequently, a three-dimensional model of a 7-series and 2-parallel battery pack was ...

This paper focuses on the thermal management of lithium-ion battery packs. Firstly, a square-shaped lithium iron phosphate/carbon power battery is selected, and a battery pack composed ...

Given the thermal vulnerability of lithium-ion batteries when subjected to high charging and discharging rates, effective cooling designs for battery packs are necessary. The ...

It is found that with the help of advanced computational numerical simulations and sophisticated experiments, the air-cooling efficiency is greatly improved by introducing new ...

To optimize the liquid-cooling structure, only direct liquid-cooling strategy is applied to the battery module in this section, while the fan is not activated. Effects of the gap spacing ...

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