



# Battery pack temperature control method





## Battery pack temperature control method



### WO2023093209A1

The present application relates to the technical field of batteries, and discloses a battery temperature control method and apparatus, a storage medium, and a computer device, mainly

### CN118899591A

The application relates to a temperature control method and device of a battery pack and computer equipment. The method comprises the following steps: determining the working ...



### [Review of Thermal Management Strategies for Cylindrical Lithium ...](#)

Effective thermal management is critical to retain battery cycle life and mitigate safety issues such as thermal runaway. This review covers four major thermal management ...

### [Effective temperature control of a thermoelectric-based battery ...](#)

To effectively control the battery temperature at extreme temperature conditions, a thermoelectric-based battery thermal management system (BTMS) with double-layer ...



### [Modeling and control strategy optimization of battery thermal](#)

Second, the optimization goals of thermal management control strategies are limited, mainly focusing on battery temperature and pack temperature differences, with insufficient ...



### **CN104900940B**

The invention discloses a kind of temperature control system of battery pack, including:Heat conductive insulating component, conducting-heat elements and temperature ...



### [A Precise Temperature Control Method for Lithium-ion Battery ...](#)

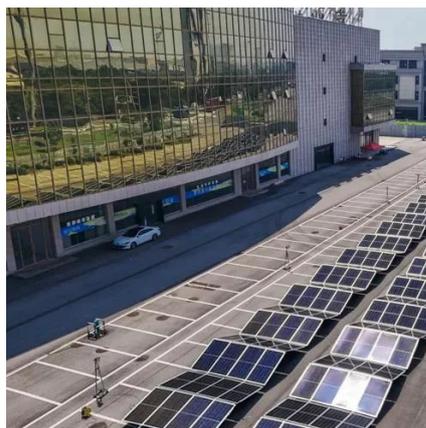
First, to address the need of predicting battery temperature, this paper develops a distributed parameter thermal resistance model to predict battery temperature quickly and ...



### [Thermal Management of Lithium-Ion Battery Pack Using ...](#)



In this study, the behavior of a cell is characterized experimentally, and the results are used to build a second-order equivalent electrical circuit model of the cell. This model is ...



### [A Precise Temperature Control Method for Lithium-ion ...](#)

To improve the thermal dissipation efficiency and extend the battery life, many scholars are developing new control strategies for battery temperature thermal management system. ...



### **US20250007039A1**

The present application discloses a battery pack, a temperature control method, a battery management system, and a computer readable medium. The battery pack includes: at least ...



### [WO/2025/222892 BATTERY PACK TEMPERATURE RISE CONTROL METHOD...](#)

A battery pack temperature rise control method, apparatus and device, and a readable storage medium, relating to the field of batteries. The method comprises: acquiring ...



### [Data-driven research on battery pack temperature prediction](#)



The operating temperature of lithium-ion battery systems is crucial for thermal management and safety in electric vehicles. However, physical modeling...



### [Research on the optimization control strategy of a battery thermal](#)

The thermal performance of the system was evaluated through experimental and simulation analyses across various operating conditions and configurations. Results ...

### **EP3531497A1**

The present invention relates to a method and apparatus for controlling a temperature of a battery pack, and more particularly, to a method and apparatus for controlling a temperature of a ...



### [Thermal Management of Lithium-ion Battery Packs](#)

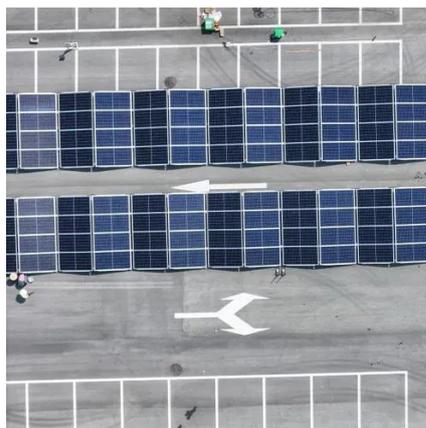
Indirect liquid cooling of battery packs (both passive and active) can prove an efficient method for dissipation or addition of heat. However, it is desirable to keep the cooling fluid separate from ...



### [Predictive temperature control and operational characteristics ...](#)



To address the thermal regulation demands of batteries under high-rate discharge, high-current operation, and rapid power release scenarios, this paper proposes a high ...



### [Modeling and control strategy optimization of battery pack thermal](#)

This paper establishes the liquid cooling thermal management system model for an electric vehicle's battery pack, which accurately characterizes the temperature distribution and ...



### [A Precise Temperature Control Method for Lithium-ion Battery Pack ...](#)

First, to address the need of predicting battery temperature, this paper develops a distributed parameter thermal resistance model to predict battery temperature quickly and ...



### [Thermal Management of Lithium-Ion Battery Pack ...](#)

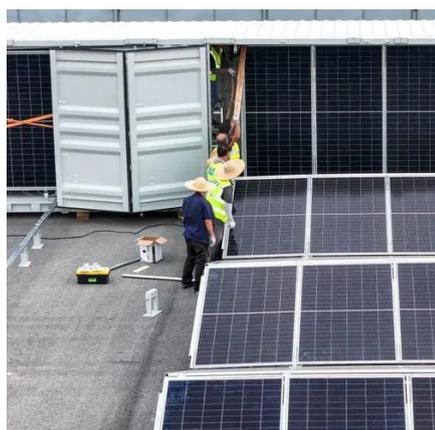
In this study, the behavior of a cell is characterized experimentally, and the results are used to build a second-order ...



**WO2018230812A1**



The present invention relates to a battery pack temperature control method and device and, more specifically, to a battery pack temperature control method and device for intermittently ...



### **WO2022202712A1**

This temperature control structure is provided with a metal member and at least one heat conductor. The metal member has a bonding surface and is used to control the temperature of ...

### [A Precise Temperature Control Method for Lithium-ion ...](#)

A Precise Temperature Control Method for Lithium-ion Battery Pack based on the Nonlinear Model Predictive Control Algorithm To cite this article: Zhihao Wen and Yalin Wei 2024 J. ...



### **US20190386352A1**

A method and apparatus for controlling a temperature of a battery pack, in which, when the battery pack is in an extremely low temperature state during charging/discharging, a ...

### [Pre-heating Li-battery model for extremely low temperature ...](#)



The research will explore three main areas of development which include hybrid PCM composites and intelligent control systems and AI-based optimization methods. The ...



### WO2023093209A1

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### [Battery Pack Modeling for the Analysis of Battery Temperature ...](#)

The temperature and current management of battery storage systems are crucial for the performance, safety, and longevity of electric vehicles (EVs). This paper.





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