

Is the energy storage lithium battery equalizer good

Do lithium ion batteries need an equalizer?

Author to whom correspondence should be addressed. Due to variations among the cells, large lithium ion batteries (LIB) such as those in battery energy storage stations (BESS) and electric vehicles (EVs) must have an equalizer(EQU) circuit to balance the cell voltages.

Why do lithium ion batteries need to be equalized?

Due to production and manufacturing differences, the consistency of many lithium-ion batteries used in series and parallel will deteriorate, so battery equalization techniques are needed to maximize the available battery capacity and ensure safe battery pack operation[1-3].

Why do lithium-ion batteries need a voltage-equalization control strategy?

In pursuit of low-carbon life, renewable energy is widely used, accelerating the development of lithium-ion batteries. Battery equalization is a crucial technology for lithium-ion batteries, and a simple and reliable voltage-equalization control strategy is widely used because the battery terminal voltage is very easy to obtain.

Why is battery equalization important in EVs?

The significance of the battery management system (BMS) in ensuring the safe and efficient operation of LIBs in EVs cannot be overstated. As a crucial part of BMS, battery equalization is considered as one of the most effective methods for reducing the unbalanced effects within a battery pack.

What are the different methods of battery equalization?

According to different methods of handling unbalanced energy, battery equalization can be divided into passive and active methods. Passive equalization involves dissipating excess electrical energy of the battery into thermal energy using resistors or MOSFET in parallel.

What are the different types of lithium-ion battery equalization circuits?

There are many types of lithium-ion battery equalization circuits, the most common of which is the passive equalization circuit. The active equalization circuit is better than the passive equalization circuit in terms of performance, but it is very complex and expensive.

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