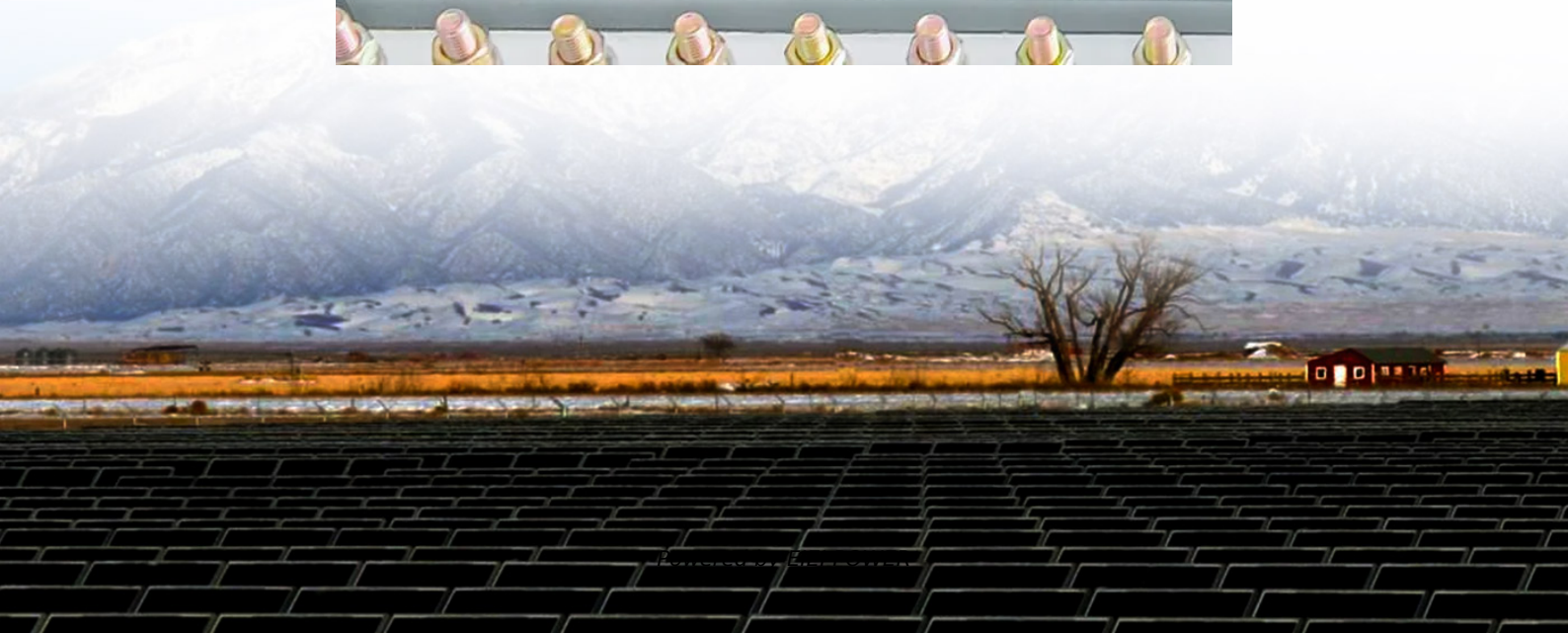


New energy battery cabinet end plate liquid cooling





Overview

Is a TO-based design suitable for large-capacity energy storage battery pack?

For this purpose, there is a lack of investigation on the TO-based design for large-capacity energy storage battery pack. Furthermore, achieving optimization is associated with multi-objective functions, such as battery temperature uniformity, coolant heat transfer rate, and pump consumption.

What is a liquid cooling plate?

The liquid cooling plate is a pivotal component within water-cooled heat exchange systems. Its design aims to effectively adjust the thermal resistance of the cooling plate within limited space through a rational design of the cooling plate channels, thereby achieving efficient heat exchange for the heat source.

What is a liquid based cold plate?

For a liquid-based cold plate, the primary goal is to maximize the heat transfer rate and minimize the flow resistance through optimizing the channel structure. In addition, thermal uniformity is another key factor, which cannot be neglected for battery thermal management.

What is the difference between indirect contact and liquid-based cooling plate?

In contrast, indirect contact, which separates coolant from battery using cold plates or tubes, has become mainstream in real applications. Nevertheless, the superiority of hydrothermal performance of liquid-based cooling plate is highly dependent on the flow parameters and topology.



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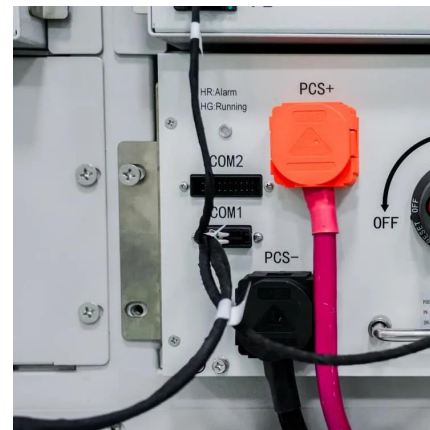


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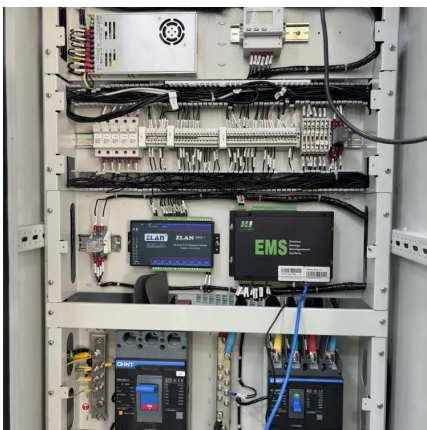


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