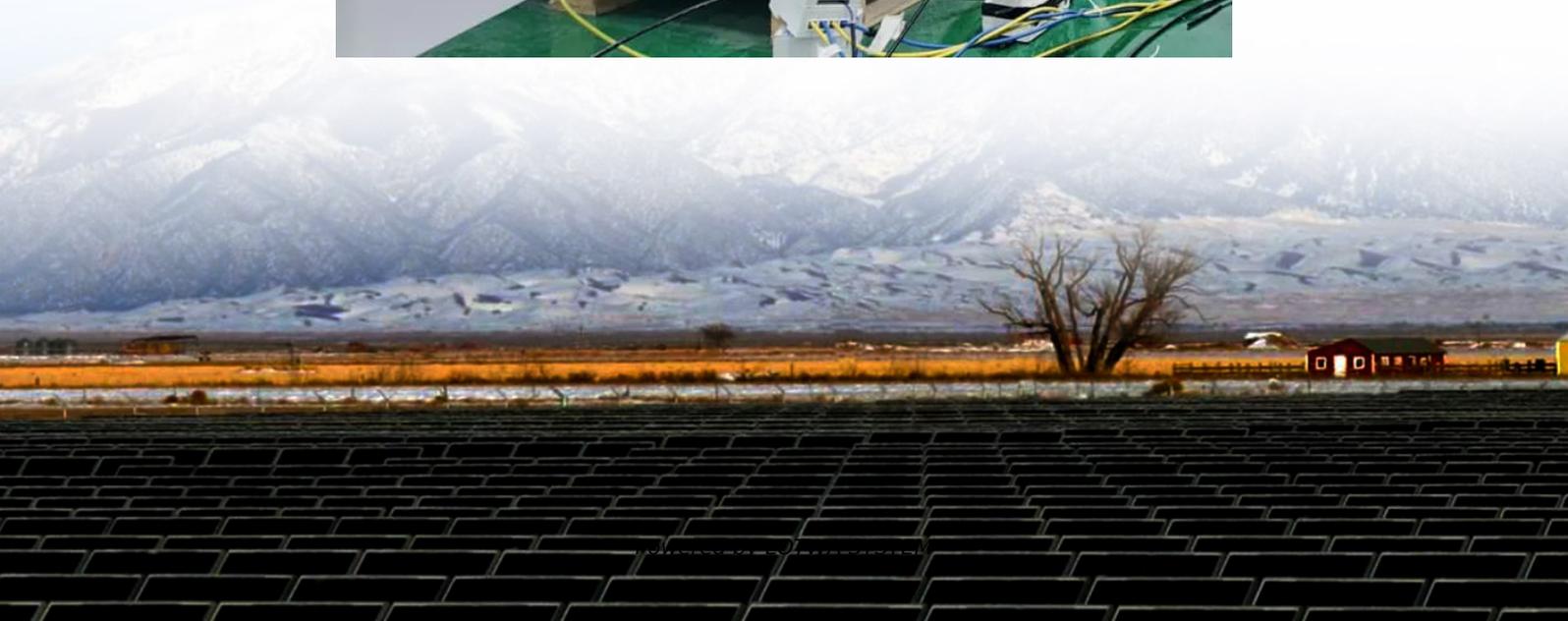


Battery cabinet cold plate production integrated system





Overview

How a cold plate is used in a battery module?

A cold plate is placed directly in contact with the battery module to dissipate heat. Owing to the significantly smaller thickness of the cold plate compared to its length and width, particularly in large-volume battery module, a 2-D cold plate model is established for topology optimization.

Can a composite cold plate improve battery temperature uniformity?

Kong et al. developed a composite cold plate which incorporates topology-optimized cooling channels into a conventional straight cooling channel, further improving battery temperature uniformity.

What is a direct cold plate?

Introducing the Direct Cold Plate, an efficient heat exchange system utilizing refrigerant to rapidly dissipate heat from battery applications to the air conditioning system. Our versatile design offers three distinct structures, ensuring it meets a wide range of customer requirements.

Can a cold plate be used for battery pack cooling?

A novel cold plate designed using the turbulent topology optimization approach is proposed for battery pack cooling. A multi-objective function is formulated to minimize both the pressure drop and average temperature of the cold plate.



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