

Anti-condensation solution for liquid-cooled solar container energy storage system





Overview

What is a composite cooling system for energy storage containers?

Fig. 1 (a) shows the schematic diagram of the proposed composite cooling system for energy storage containers. The liquid cooling system conveys the low temperature coolant to the cold plate of the battery through the water pump to absorb the heat of the energy storage battery during the charging/discharging process.

What is a container energy storage system?

Containerized energy storage systems play an important role in the transmission, distribution and utilization of energy such as thermal, wind and solar power [3, 4]. Lithium batteries are widely used in container energy storage systems because of their high energy density, long service life and large output power [5, 6].

What is container energy storage temperature control system?

The proposed container energy storage temperature control system integrates the vapor compression refrigeration cycle, the vapor pump heat pipe cycle and the low condensing temperature heat pump cycle, adopts variable frequency, variable volume and variable pressure ratio compressor, and the system is simple and reliable in mode switching.

Does evaporative condenser improve natural cooling capacity?

Shao et al. integrated an evaporative condenser with the thermosyphon loop, and experiments showed that the natural cooling capacity of the system was enhanced. Compared to the conventional thermosyphon loop, the natural cooling time was extended and the system energy efficiency was improved.



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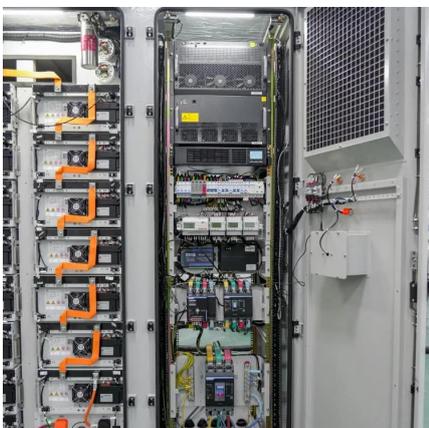
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The energy storage liquid cooling system requires long-term stable operation, and the risk of condensation in the battery compartment must be given sufficient attention.





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