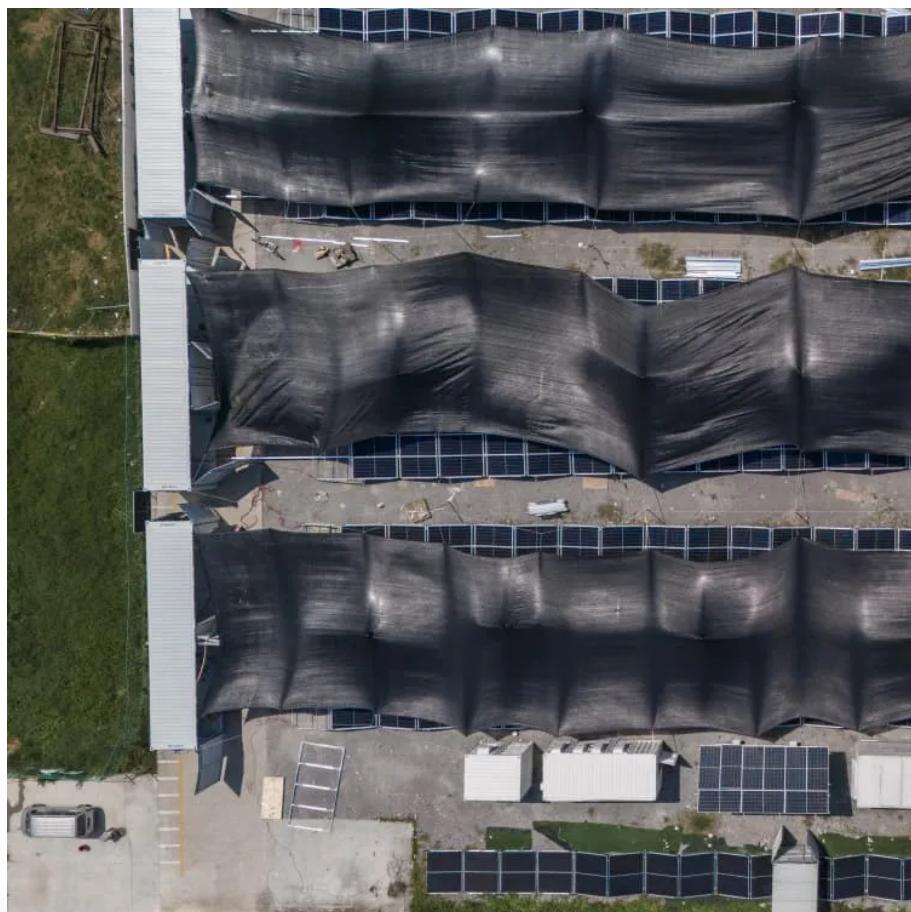




ŁOTWA SYSTEM

Energy storage liquid cooling pump





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 low condensing temperature heat pump technology?

In winter, low condensing temperature heat pump technology is used to replace traditional PTC electric heating, which has good energy saving benefits. The proposed temperature control system on a 5 MWh energy storage container can achieve a 5 %-25 % increase in the annual cooling coefficient of performance (ACCOP).

What is vapor pump heat pipe technology?

Vapor pump heat pipe technology is less used in the field of energy storage temperature control and is widely used in other fields such as data center cooling [25, 26]. Shao et al. integrated an evaporative condenser with the thermosyphon loop, and experiments showed that the natural cooling capacity of the system was enhanced.

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.



Energy storage liquid cooling pump

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