

Liquid cooling and air cooling of energy storage cabinet





Overview

Why is air cooling a problem in energy storage systems?

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Why does air cooling lag along in energy storage systems?

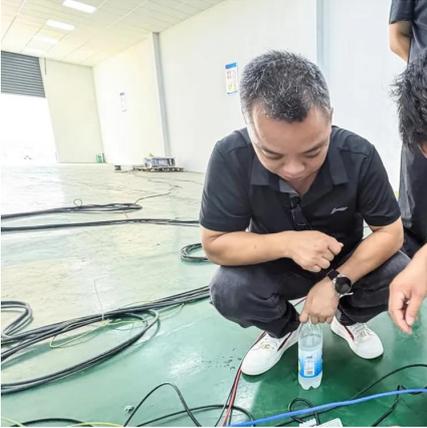
Abstract: With the energy density increase of energy storage systems (ESSs), air cooling, as a traditional cooling method, limps along due to low efficiency in heat dissipation and inability in maintaining cell temperature consistency. Liquid cooling is coming downstage.

Is liquid cooling coming downstage?

Liquid cooling is coming downstage. The prefabricated cabined ESS discussed in this paper is the first in China that uses liquid cooling technique. This paper explores its thermal management design. The layout of liquid cooling piping is studied. The specifications of cooling piping, cooling units and dehumidifying air conditioners are discussed.



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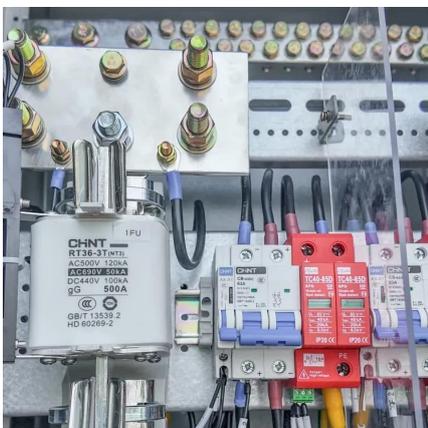


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