

Liquid Cooling Energy Storage Production Details





Overview

What is a 5MWh liquid-cooling energy storage system?

The 5MWh liquid-cooling energy storage system comprises cells, BMS, a 20'GP container, thermal management system, firefighting system, bus unit, power distribution unit, wiring harness, and more. And, the container offers a protective capability and serves as a transportable workspace for equipment operation.

Does ambient temperature affect the cooling performance of liquid-cooling systems?

In the actual operation, the ambient temperature in LIB ESS may affect the heat dissipation of the LIB modules. Consequently, it is necessary to study the effect of ambient temperature on the cooling performance of the liquid-cooling system.

What is the maximum temperature rise of a liquid cooling system?

With the liquid-cooling system on, from the initial temperature, the maximum temperature rise of the LIBs is 2 K at the end of the charging process and 2.2 K at the end of the discharging process compared with the initial temperature.

Can liquid cooling system reduce peak temperature and temperature inconsistency?

The simulation results show that the liquid cooling system can significantly reduce the peak temperature and temperature inconsistency in the ESS; the ambient temperature and coolant flow rate of the liquid cooling system are found to have important influence on the ESS thermal behavior.



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