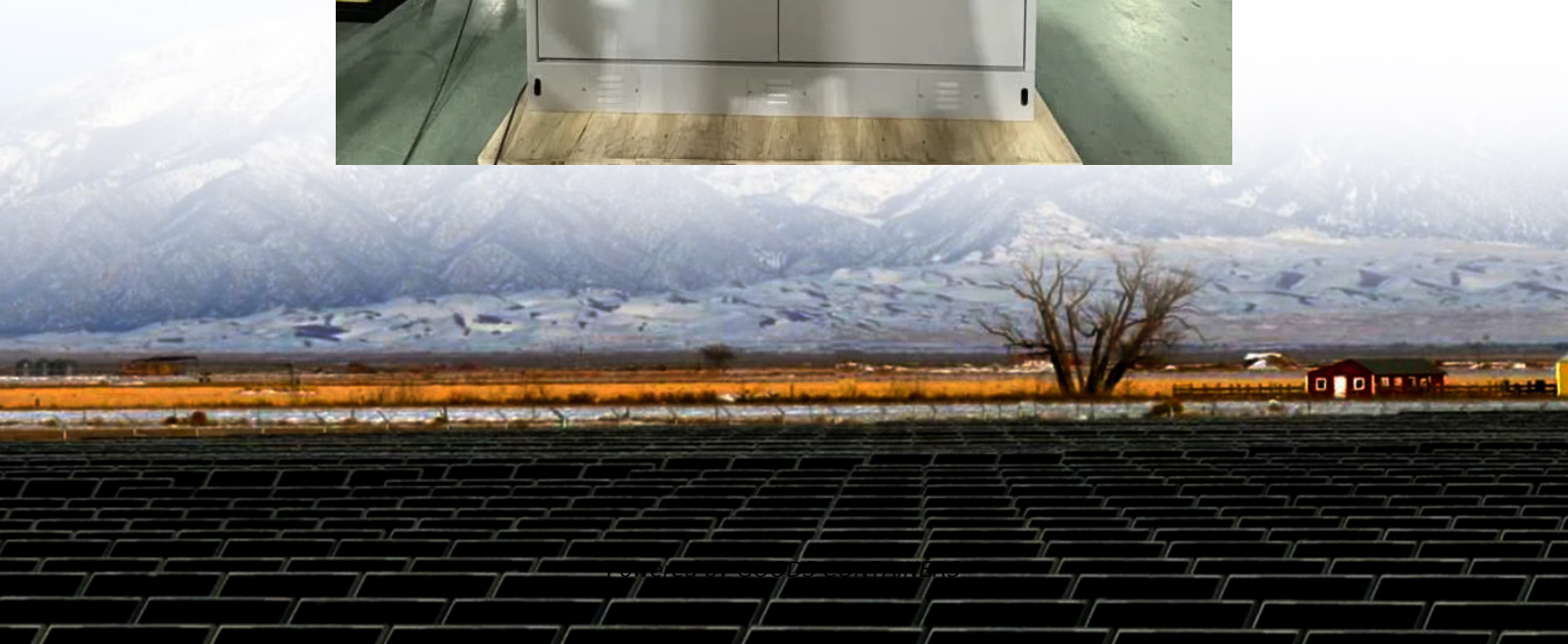


Liquid Cooling Energy Storage Cabinet Battery Pack Installation Method





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.

Where is the liquid cooling unit located?

The liquid cooling unit, firefighting system, confluence chamber, and power distribution room are located at one end of the cabin, with the liquid cooling unit taking up the majority of the space. The liquid cooling piping runs along the bottom of the cabin, while the firefighting piping and wiring are laid out at the top.

Why is water cooling important for lithium ion batteries?

Water cooling is crucial for battery performance and durability. Active water cooling is the best thermal management method to improve the battery pack performances, allowing lithium-ion batteries.

How does a battery temperature control system work?

The temperature control system consists of a liquid cooling unit and liquid cooling pipes. Batteries are sensitive to temperature varying, with the suitable operating temperature range for lithium iron phosphate batteries typically between 10-35°C.



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