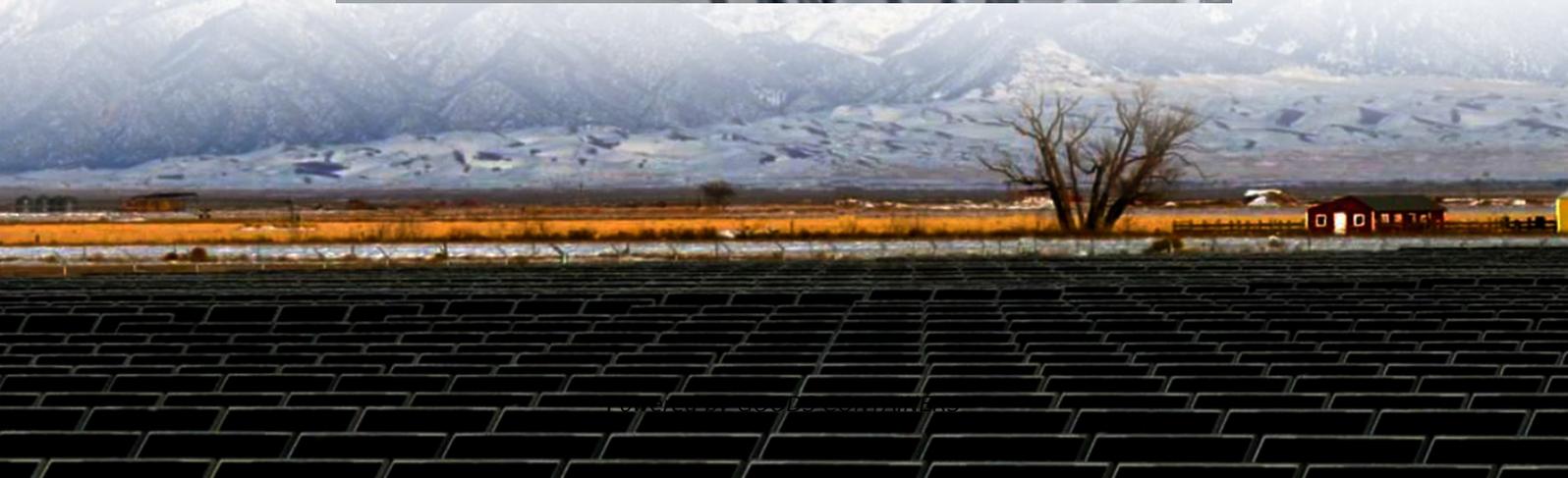
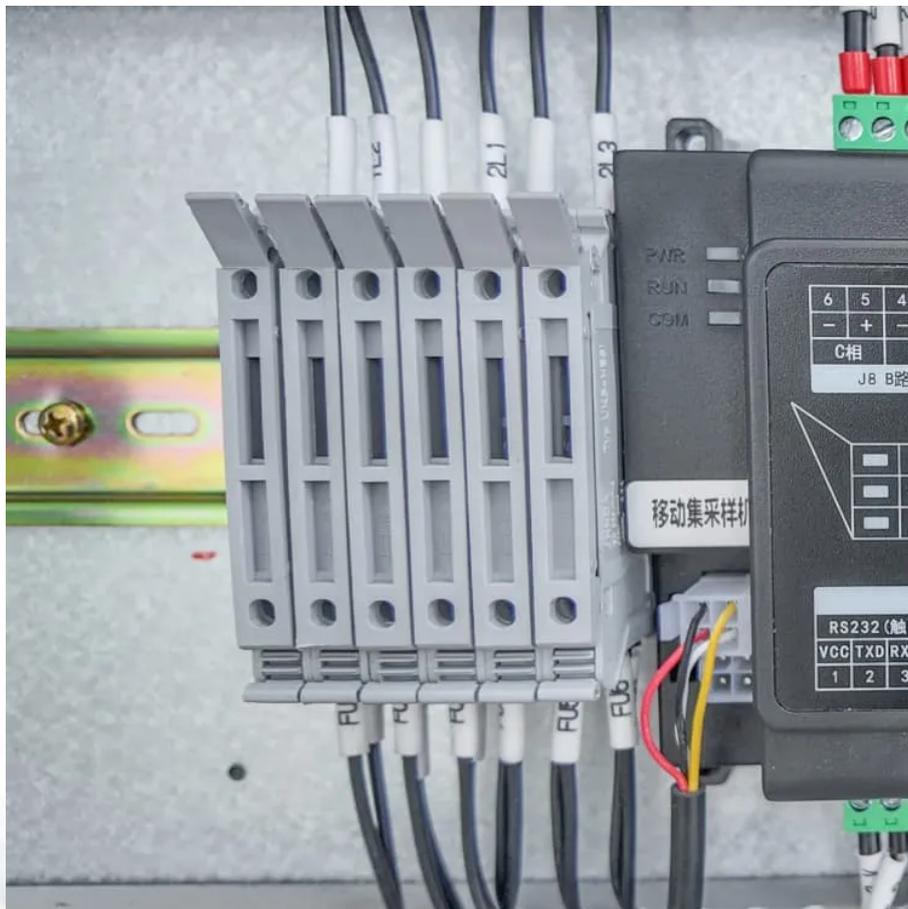


High-Temperature Resistant Mobile Energy Storage Containers for Data Centers





Overview

What is high-temperature energy storage?

In high-temperature TES, energy is stored at temperatures ranging from 100°C to above 500°C. High-temperature technologies can be used for short- or long-term storage, similar to low-temperature technologies, and they can also be categorised as sensible, latent and thermochemical storage of heat and cooling (Table 6.4).

What is a high temperature storage material?

The main technological innovation of the company relies on the developed high temperature storage material in the form of purposely produced pellets or bricks, with high heat capacity and thermal conductivity.

What is thermal energy storage?

Exploring thermal energy storage systems to store excess cooling capacity for use when liquid cooling systems experience high demands or fail. Having extra liquid cooling for flexibility. For pure HPC loads, enough backup is provided to securely shut down devices.

What is the future of data center energy storage?

The data center energy storage landscape is rapidly evolving, shaped by shifting priorities, emerging technologies, and growing AI demands. Industry professionals cite power availability, cybersecurity and data privacy, sustainability, cooling, and AI as the biggest challenges of the next decade.



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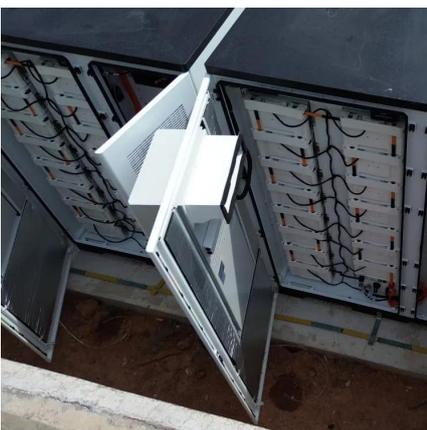
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