

ContainerPower Energy Solutions

Immersed Energy Storage System



Overview

What is a cluster-level immersion cooling lithium-ion battery energy storage system?

In this study, a 372 kW/372 kWh cluster-level immersion cooling lithium-ion battery energy storage system was proposed. The system consists of 416 pieces of 280Ah LiFePO₄ batteries, with the entire cluster immersed in coolant. The 10# transformer oil, silicone oil-5cSt, and natural ester RAPO are selected as the immersion coolant.

What is immersion cooling ESS?

“Our immersion cooling ESS is set to lead the next generation of energy storage solutions, ensuring the highest levels of fire prevention. Safety is a critical requirement for maritime ESS applications.”.

Is immersion cooling ESS flammable?

The immersion cooling ESS is certified for non-flammable properties and protection against salt and dust. Hanwha Aerospace and SK Enmove have partnered to revolutionize energy storage systems.

What is EticaAG energy storage?

EticaAG is the original equipment manufacturer (OEM) of a patented immersion cooling battery energy storage system (BESS) technology, a breakthrough solution that prevents fire propagation from thermal runaway. It sets a new standard in safety for energy storage.

What is immersion cooling technology?

Among them, immersion cooling technology is the most prominent. This is because it allows direct contact between the coolant and the battery surface, thereby reducing the contact thermal resistance between the coolant and the battery surface.

Can immersion cooling improve China's Energy Security?

Its operation marks a successful application of immersion cooling technology in new-type energy storage projects and is expected to contribute to China's energy security and stabilization and its green and low-carbon development. Developed by China Southern Power Grid (CSG), the plant has a capacity of 70 megawatts/140 megawatt-hours.

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