

Long-life promotion for energy storage battery cabinets used in base stations

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What are battery cabinets used for?

It is widely used in telecommunications,electric power,transportation,and other industries. In recent years,with the popularization of renewable energy,battery cabinets have become an indispensable part of the energy storage system.

Why is long-life battery important?

However,when the lithium-ion batteries participate in energy storage,peak shaving and frequency regulation,extremely harsh conditions,such as strong pulses,high loads,rapid frequencies,and extended durations,accelerate the life degradation significantly. Long-life battery is significant for safe and stable operation of ESSs.

Why do communication base stations use battery energy storage?

Meanwhile,communication base stations often configure battery energy storage as a backup power source to maintain the normal operation of communication equipment[3,4]. Given the rapid proliferation of 5G base stations in recent years,the significance of communication energy storage has grown exponentially [5,6].

How can energy storage battery cabinets improve thermal performance?

This study optimized the thermal performance of energy storage battery cabinets by employing a liquid-cooled plate-and-tube combined heat exchangemethod to cool the battery pack.

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