

120kW Data Center Battery Cabinet for Edge Computing

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How big is the lithium-ion battery market in data centers?

According to a report by MarketsandMarkets, the lithium-ion battery market in data centers is expected to grow from \$2.9 billion in 2021 to \$7.7 billion by 2026, driven by the need for energy-efficient and space-saving solutions like Vertiv EnergyCore. A standout feature of the Vertiv EnergyCore battery cabinets is their ease of deployment.

What is a Vertiv EnergyCore Battery Cabinet?

The Vertiv(TM) EnergyCore Lithium-Ion Battery Cabinet provides high power density in a compact design. It can deliver up to 222.2 kWb (Li7) or 263 kWb (Li5) in 600 mm wide cabinet. It is designed to operate at higher temperatures of up to 30C and optimized for either 5- or 7-minute runtime.

What is EDGE data center power architecture?

Our Edge data center power architecture, helps achieve just that. The distributed power architecture is able to meet the demands of data centers, both today and in the future, by providing high-power density in a modular solution that can grow with a data centers' computing needs.

How does edge data center power work?

Each power train is fed from a three-phase, 480-volt AC source and converts the power to 48-volts DC inside the enclosure for battery reserve (which is also housed in the system). With the Edge data center power architecture, rectifiers and batteries are hot-swappable and self-configurable.

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In response to the growing demand for energy-efficient, high-performance computing (HPC) solutions, Vertiv has introduced its state-of-the-art EnergyCore battery cabinets.

Featuring 215kWh of LiFePO4 storage and a 120kW PCS, this system is engineered for industrial parks and commercial complexes that require high-power energy management.

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"With our Vertiv EnergyCore battery cabinets, we are delivering exactly what our customers and our industry need - compact, high-density energy storage capable of operating safely ...

Meeting the urgent need for solutions supporting high-density computing in increasingly crowded data center facilities, Vertiv, a global provider of critical digital infrastructure and continuity ...

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The highly reliable Edge distributed power architecture provides a cost-effective solution to backup power needs in data centers by utilizing compact DC power supplies mounted inside - on the side ...

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This system provides a 120kW sustained power output and a battery capacity of up to 225kWh, easily meeting the demands of most high-load applications like factories, commercial buildings, or large ...

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