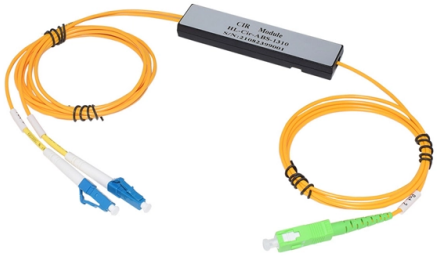
New rack-mount lithium battery cabinet for use in supercomputing centers



Overview

Vertiv introduces fully populated, high power density lithium battery. Meeting the urgent need for solutions supporting high-density computing in increas.

Key Takeaways

Vertiv EnergyCore, Delta UZR Gen3, and Americase lithium battery cabinets offer high-density, safe, and scalable energy storage solutions for HPC and data center environments.

Vertiv Energy

Core Cabinets

Vertiv EnergyCore cabinets are factory-assembled with LFP (Lithium-Iron-Phosphate) modules and an integrated battery management system (BMS), optimized for high-density HPC environments. Each 24-inch wide cabinet delivers 263 kWb with five minutes of end-of-life runtime, operating across a wide temperature range, making it suitable for compact, high-power installations. The cabinets are lighter and more compact than traditional VRLA solutions, reducing the number of cabinets required.

Installation is simplified with no external control wiring, an internal two-hole lug, and a self-powered BMS that provides lifetime data storage, state-of-health monitoring, and predictive analytics. Remote monitoring is available via Vertiv Alber Battery Xplorer Enterprise.

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Delta UZR Gen3 Series

The Delta UZ

R Gen3 Series is a rack-mount lithium-ion battery system designed for data centers, offering enhanced safety, reliability, and long service life. It has passed UL9540A testing with no fire propagation and meets international standards including UL1973, IEC62619, and IEC60730. The system is engineered for up to 10 years of operation, aligning with IT infrastructure replacement cycles.

It integrates seamlessly with Delta's UPS, cooling, and electrical systems, providing a complete, engineered solution for critical power management while reducing total cost of ownership.

Americase Lithium-

Ion Battery Storage Cabinets

Americase offers compliant, scalable, and mobile lithium battery cabinets suitable for mission-critical data center environments. Constructed from aircraft-grade aluminum, these cabinets support Open Rack Version (ORV) standards including ORV2, ORV3, and ORV3-HPR, enabling integration into modern data center racks. They are designed to replace separate fire-rated storage rooms, meeting IFC 2024 standards for safe storage of bulk, prototype, or defective batteries.

The cabinets are lightweight, field-repairable, and customizable for different battery sizes and quantities, providing operational flexibility and cost efficiency.

Key Considerations for Supercomputing Centers

Power Density: Choose cabinets that maximize energy storage per rack unit to save space in high-density HPC environments. Safety and Compliance: Ensure UL, IEC, and IFC certifications for fire safety and chemical containment. Integration: Cabinets should integrate with existing UPS, cooling, and monitoring systems.

Maintenance and Monitoring: Onboard BMS with remote monitoring capabilities simplifies predictive maintenance and warranty support.

Lifecycle and TC

O: Consider service life, replacement cycles, and total cost of ownership for long-term planning. These solutions provide compact, high-power, and safe lithium battery storage options suitable for modern supercomputing centers, enabling efficient deployment and reliable operation in demanding HPC environments.

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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

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Vertiv Introduces Fully Populated, High-Density Lithium Battery ...

Meeting the urgent need for solutions supporting high-density computing in increasingly crowded data center facilities, Vertiv introduced Vertiv EnergyCore battery cabinets.

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