

Hot-swap battery cabinet





Overview

What is a hot swap UPS battery?

In smaller UPS systems, battery modules are often used, where batteries are installed inside a modular housing, and the module is inserted into the UPS or battery cabinet frame. If designed properly, Hot swap UPS batteries allow for the replacement or addition of battery modules without shutting down the entire system.

What is a hot-swapping battery system?

The core goal of a hot-swapping battery system is to enable the insertion or removal of modules or circuit boards without shutting down the device or disrupting system operation. This capability enhances system reliability, serviceability, redundancy, and disaster recovery.

What are the benefits of hot swappable UPS batteries?

Enhanced safety: Hot swap UPS batteries reduce the risk of electrical hazards during maintenance or upgrades, as there is no need to work on live electrical equipment. Overall, hot swappable UPS batteries provide businesses with a flexible, reliable, and cost-effective power protection solution that minimizes downtime and simplifies maintenance.

Why does a battery pack not have a hot-swap capability?

The absence of hot-swap capability prevents safe insertion or removal of battery pack modules during system operation. This limitation stems from the substantial inductors and capacitors present on the module's BMS, which during live swapping can generate: These phenomena pose significant risks of module damage and system-wide operational failure.

What is a power hot-swap circuit?

The primary goal of power hot-swap is to limit transient inrush current when a module is inserted into a live power bus. Without proper control, this surge



current can cause voltage instability or hardware damage. A well-designed hot-swap circuit ensures that the current remains within safe limits, maintaining system integrity.

How does a hot-swap system work?

To maximize system reliability and allow rapid maintenance, the system must support live insertion and removal of replaceable modules without disrupting normal operation. This necessitates the integration of hot-swap capability into each module, which ensures seamless power delivery during maintenance or reconfiguration.



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[GXT5-EBC48VRT2U, Liebert® External Battery for 48V Liebert® ...](#)

The Vertiv(TM) Liebert® GXT5-EBC48VRT2U is a hot-swappable, lead-acid UPS battery cabinet designed for use with Liebert® GXT5-1500LVRT2UXL and Liebert® GXT5-2000LVRT2UXL ...

[Vertiv Liebert Hot-Swap Battery for 72V Liebert GXT5 UPS \(3kVA\)](#)

When longer runtime is desired, External Battery Cabinets (EBC) may be added to increase the runtime and availability of your connected devices. EBCs are auto-detected, so no user ...



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