

Hot-swappable power distribution unit cold aisle fixed manufacturer



AI Overview

Eaton, Raritan, Supermicro, and Kaori offer hot-swappable PDUs designed for high-density, high-temperature data center environments with cold aisle deployment. Eaton Hot-Swap PDUs Eaton provides hot-swappable PDUs that allow maintenance of UPS systems without powering down connected equipment. Key features include dual input cords, a manual bypass switch, and modular design, enabling live replacement of UPS modules while maintaining continuous power to mission-critical loads. These PDUs are suitable for high-availability environments and can be integrated into cold aisle setups where uptime is critical. Raritan PX4 PDUs Raritan's PX4 rack PDUs combine hot-swappable capabilities with advanced monitoring and high-density outlet technology. The PX4 supports live replacement of individual outlets, provides $\pm 0.5\%$ metering accuracy, and integrates with environmental sensors for temperature and power monitoring. Its design accommodates high-density racks and ensures reliable operation in high-temperature cold aisle conditions. Supermicro Liquid-Cooled PDUs Supermicro offers CDUs (Coolant Distribution Units) with hot-swappable redundant pumping and power supply modules, supporting high rack densities and extreme thermal loads. These units integrate with liquid cooling systems to maintain optimal temperatures for CPUs, GPUs, and DIMMs, making them suitable for high-temperature cold aisle deployments. Anti-condensation strategies and intelligent control systems ensure hardware protection and efficient power delivery. Kaori In-Rack CDUs Kaori develops In-Rack Direct-to-Chip (D2C) CDUs with hot-swappable functionality, capable of dissipating up to 80 kW per cabinet. Using brazed plate heat exchangers, these units provide liquid-to-liquid heat exchange, recover waste heat, and maintain continuou...

Article Content

Hot-swap for UPS systems and PDUs

SmartOnline hot-swappable modular UPS systems feature a modular power distribution unit (PDU) that combines all input and output power connections with a manual bypass switch. Facility personnel

Modular PDU with Hot-Swappable Power Modules 32A, 300V, 3-Phase

Our main products are server/IT racks, integrated Micro modular data center smart cabinet, cold/hot aisle containment, UPS, PDU, precision air conditioning, precision power distribution, etc.

SUPERMICRO RACK SCALE LIQUID COOLING SOLUTIONS

Coolant Distribution Unit (CDU) – Contains the pumping system that circulates the coolant to the cold plates cooling down the CPUs, GPUs, and DIMMs. The Supermicro CDU integrates 2 hot-swappable

Containment | Hot

Our range of aisle containment provides cost-effective and energy-efficient solutions for maximising performance. Containment solutions from Tate reduce costs by

Acceleration | Custom data center containment systems

Vertically integrated manufacturer of hot aisle containment, cold aisle containment, white space structure and conveyance solutions.

Eaton FlexPDU & HotSwap MBP

Hot Swap MBPs enable easy UPS replacement without interruption to the connected load. Placing the HotSwap MBP in bypass mode provides utility

Modular Power Distribution

Comprised of a UL listed “touch-safe” backplane with up to 72 poles of 3-phase power and hot-swappable power distribution modules, all engineered into the world's smallest footprint for power

ASHRAE TC9.9 Data Center Power Equipment Thermal Guidelines

This paper discusses how changes to the data center thermal environment may affect power distribution equipment. This paper also provides an overview of data center power distribution and

CHx2000 CDU with 2000 kW Liquid-Air Cooling | CoolIT

Deploy liquid cooling with CoolIT today. Discover CHx2000, CoolIT's highest-performing CDU. 2000 kW liquid-to-air capacity, hot-swappable pumps, and full

Hot & Cold Aisle Containment Systems For Data

Cool Shield™ containment offers state-of-the-art hot and cold aisle containment solutions designed to maximize data center efficiency while significantly reducing

What are hot and cold aisles in the data center?

In its simplest form, hot/cold aisle data center design involves lining up server racks in alternating rows, with cold air intakes facing one way and the

Data Center Hot/Cold Aisle Containment Systems | Eaton

An aisle containment system is a simple way to improve cooling efficiency in hot aisle/cold aisle rack configurations. Essentially creating a room within the aisle,

What Are Hot-Swappable and Cold-Swappable Devices?

Unlike hot-swappable hardware, cold-swappable components are not designed to be electrically or mechanically disconnected while the system is running. The main issue is that these

PX4 Landing Page

It offers industrial-grade reliability and multilayer redundancy for failover support. The iX is fully hot-swappable; it enables live replacement with no power

SUPERMICRO RACK SCALE LIQUID COOLING SOLUTIONS

The Supermicro CDU integrates 2 hot-swappable and redundant pumping modules and power supply modules, guaranteeing nearly a 100% uptime to the operator. The CDU has cooling capacity of up to

Tripp Lite Integrated Solutions Brochure

SmartOnline Hot-Swappable UPS Systems also have one or more hot-swappable power modules and a detachable PDU with a manual bypass switch. After you turn the bypass switch, you can completely

Hot Aisle Containment in Data Centers | Subzero

Hot aisle containment in data centers can double the cooling capacity & increase data center efficiency by 30% or more. Learn more here!

Aisle Containment Systems for Hot & Cold Aisle Solutions

Cool Shield Aisle containment solutions reduces server row temperatures in active data centers. Learn more about the benefits of hot and cold containment.

Power Distribution Units – Tailored Solutions | INDU-ELECTRIC®

As a globally operating manufacturer, INDU-ELECTRIC develops and produces professional power distribution systems that are precisely tailored to technical requirements and operating conditions.

Data Center Resources | Aisle Containment & NOC

The industry leading Cool Shield Aisle Containment Solution is the most versatile and cost effective data center aisle containment solution. Our

Hot-Swap UPS Systems & PDUs | Eaton

But with Eaton's Hot-Swap Solutions, the UPS can be repaired or replaced at any time, while keeping connected mission-critical equipment powered and fully

Aisle containment system buying guide

Aisle containment system buying guide Discover the key factors to consider when choosing a hot aisle/cold aisle containment system. This buying guide will help you understand the features of an

Impact of Hot and Cold Aisle Containment on Data Center

It also concludes that new data center designs should use or provision for hot-aisle containment. The containment of hot or cold air in a data center results in the following efficiency benefits.

Power Distribution Units

Panduit Power Distribution Units are designed for the modern data center, integrating seamlessly with facility systems. Our PDUs offer versatile options in density, capacity, and connectivity, future

PX4 Landing Page

The PX4 is more than just a rack power distribution unit. It is a unified rack PDU solution that provides forward-thinking tools, sensors, and insights to solve ever

Contact Us

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