High-density hot-swappable power distribution unit NEMA4X available now

Overview

Power Distribution Units (PDU) Available in capacities ranging from 300 kVA to 2,000 kVA in Copper or Aluminum with single or multi-output voltages, delive.

Key Takeaways

Raritan PX4 and Larson Electronics NEMA 4X PDUs provide high-density, hot-swappable power distribution solutions suitable for industrial and data center environments.Raritan PX4 PDU

The PX4 PDU is designed for high-density rack deployments with patented HDOT outlets that combine C13 and C19 functionality, accommodating both C14 and C20 plugs in a single outlet. It supports hot-swappable operation, allowing live replacement of individual outlets without interrupting power to connected equipment. The PX4 also offers real-time power monitoring with ±0.5% accuracy, tracking metrics such as total harmonic distortion, reactive power, and inrush current. Its modular design maximizes outlet density in a 42U rack, reducing the need for multiple PDUs and simplifying future equipment upgrades .

Larson Electronics NEMA 4X PDU

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For industrial and outdoor applications, the Larson Electronics PDU-PNL-SS-3P-MCB-400A-480Y.277-N4X provides a NEMA 4X-rated enclosure, protecting against dust, dirt, and moisture. This 400-amp, three-phase 480Y/277V AC panel includes 42 circuits and a main circuit breaker. The stainless steel enclosure supports plug-in mounting, lockable access, and optional configurations on dolly carts or stand-alone frames for flexible deployment. It is UL 1640 certified, ensuring compliance with industrial safety standards .

CoolIT CHx2000 CDU

While primarily a liquid-to-air cooling distribution unit, the CHx2000 features hot-swappable pumps and full monitoring capabilities, making it suitable for high-density data center environments where both power and thermal management are critical. It supports up to 2000 kW capacity and integrates seamlessly with existing infrastructure .

Summary
• Raritan PX4: High-density, hot-swappable outlets, real-time monitoring, ideal for data centers.

• Larson Electronics NEMA 4X PDU: Rugged, industrial-grade, NEMA 4X enclosure, 42 circuits, 400A three-phase.

• CoolIT CHx2000: Hot-swappable pumps, high-capacity liquid-to-air cooling, suitable for high-density racks. These options provide immediate availability for environments requiring high-density, hot-swappable, and NEMA 4X-rated power distribution.

Article Content

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Eaton Rack PDU G4

Industry-leading, high-density 0U mounted PDU that provides 24, 42 or 48 evenly distributed outlets on a 42U chassis. Its low-profile

Rack PDU | Power distribution units for server racks | Eaton

Providing reliable and cost effective power distribution, the Basic PDU offers IEC outlet grips, tool-less installation in server racks,

XPDU Power Distribution Unit | Xtreme Power Conversion

Reliable rack-level power distribution designed for data centers, network closets, and high-density IT environments requiring flexible

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NEMA Ratings for Enclosures

NEMA 3R Enclosures Designed for outdoor use, offering protection against rain and sleet. Commonly used for housing power

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Read this guide to enclosure types and NEMA ratings so you can ensure your electrical equipment meets the proper

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Wall mount NEMA 4 single outer door distribution unit with lockable network compartment door and 4 termination panel capacity.

NEMA 4X

NEMA Enclosures Materials 5052-H32 aluminum 304/304L stainless steel 316/316L stainless steel NEMA 4X Electrical Enclosures

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HDX Series High-Density Power Supplies | Switching

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HDX Series high-density rugged power supplies from Switching Power Inc. with multiple output

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Eaton Hot-Swap PDUs offer dual input cords and a manual bypass switch, enabling live-replacement of standard plug-in UPS

Hot-swap controllers | TI

Designed for modern high-density systems, hot-swap controllers can support higher current and power levels than typical eFuses,

NEMA 4X Power Distribution Panel

The NEMA 4X rated power distribution panel provides operators the ability to safely tap into and distribute 480Y/277V AC power from

High Density PDUs for Data Centers

The units are available in horizontal 19-in. rack or vertical mounting capabilities and a broad range of characteristics. The PDU

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Tripp Lite hot-swap bypass PDUs maintain continuous power to connected equipment, so you can repair or replace UPS systems

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