

API power distribution box



Overview

Distributor boxes | Phoenix Contact Use distributor boxes for quick and clear cabling in the field. Distributor boxes bundle several cables into one master.

Key Takeaways

API Technologies power distribution boxes (PDUs) provide customizable, high-reliability AC and DC power management solutions for industrial, defense, and telecommunications applications.

Overview

API Technologies manufactures power distribution units (PDUs) and power boxes designed for both AC and DC applications, offering features such as circuit protection, surge suppression, EMI filtering, metering, monitoring, sequencing, and switching . These units are engineered for high reliability and reduced downtime, making them suitable for critical infrastructure, data storage systems, communications equipment, medical devices, and alternative energy systems .

Key Features

- **AC and DC Compatibility:** Supports a wide range of voltages, including up to 380VDC .
- **Customizable Design:** Units can be tailored to OEM specifications, including rack-mounted or box-build formats, with options for build-to-print and private labeling .
- **Monitoring and Control:** Many PDUs include remote monitoring, power sequencing, and metering for individual outlets, enabling precise energy management .

- **Circuit Protection:** Integrated fuses, breakers, and surge suppression protect connected equipment from electrical faults .
- **Ruggedized Packaging:** Designed for harsh environments, including defense and industrial applications .
- **EMI Filtering:** Reduces electromagnetic interference to ensure stable operation of sensitive electronics .

Applications

API power distribution boxes are widely used in:

- **Defense and Military Systems:** Ruggedized PDUs for field and tactical equipment .
- **Telecommunications and Networking:** Reliable power for switches, routers, and optical networking platforms .
- **Data Centers and Storage Systems:** Rack-mounted PDUs for server and storage racks .
- **Medical Equipment:** Ensures uninterrupted power for critical devices .
- **Industrial and Alternative Energy Systems:** Custom solutions for oil & gas, renewable energy, and manufacturing .

Customization and Support

API Technologies offers engineering, design, and manufacturing support for custom PDUs, including slight modifications to existing products or fully designed solutions. They provide legacy support, reverse engineering, and testing/packaging services, ensuring compatibility and reliability for specialized applications .

Summary

An API power distribution box is a versatile, high-reliability solution for managing AC and DC power in critical systems. Its combination of customization, monitoring, protection, and rugged design makes it suitable for demanding industrial, defense, and commercial environments, providing both operational efficiency and equipment safety .

Frequently Asked Questions

Why does Lex offer rubber enclosure portable power distribution boxes?

Rubber enclosures are resistant to rust, corrosion, and denting. The enclosure is resistant to mechanical shock, and impacts which increases the pr...

What are NEMA Type 1 (Indoor) and Type 3R (Outdoor) ratings?

Definitions as specified in UL 50E: TYPE 1 – Enclosures constructed for indoor use to provide a degree of protection to personnel against access to...

Should the ground and neutral be reversed (RGN, Reverse Ground & Neutral, Reverse Ground) on cam dev...

This is a safety practice commonly used in the Entertainment industry. Reversing certain cam connections makes it less likely that a ground or neut...

What is the meaning of cam colors?

Cams are colored as a convention to identify phases, (red black and blue for 120/240 VAC and neutral and ground wires. In the US NEC, only green an...

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

