

RIVO MULTITRADE OPTICAL SYSTEMS

Floor-standing secondary distribution box



Overview

Secondary Distribution Boxes Modular zone distribution system for raised floors, improving cable management and installation. Floor-standing cabinets We ca.

Key Takeaways

Floor-standing secondary distribution boxes are modular electrical enclosures designed to safely distribute power from a main supply to secondary circuits in commercial, industrial, or data center environments.

Floor-standing secondary distribution boxes are self-contained enclosures that house circuit breakers, busbars, and other electrical components to distribute electricity from a main distribution board to secondary circuits. They are typically used where wall-mounted solutions are impractical or where higher capacity and modularity are required . These boxes can accommodate both low-voltage power distribution and telecommunication or signal systems, depending on the design .

Key Features

- Protection Classes: Available in Class I (earthed) and Class II (double insulated) options, ensuring safety for different installation environments .
- IP Ratings: Commonly IP43 or higher, providing protection against dust and water ingress .
- Modularity: Many floor-standing boxes support modular expansion, allowing integration of meter panels, distribution panels, or combination sets .

- **Pre-Wired Options:** Some systems, like ACS modular zone distribution, come pre-wired with plug-in connectors for rapid installation under raised floors or in accessible ceilings .

- **Monitoring and Control:** Advanced units, especially in data centers, may include monitoring capabilities for voltage, current, and branch circuit management .

Applications

- **Commercial and Industrial Buildings:** Distribute power to lighting, HVAC, and machinery while providing flexibility for future expansion .

- **Data Centers:** Floor-standing PDUs distribute three-phase power to server racks, optimize voltage regulation, and reduce harmonics .

- **Smart Buildings:** Support decentralized energy, signal, and data distribution, enabling integration with building automation systems .

Advantages

- **Space Efficiency:** Can accommodate multiple panels in a single enclosure, reducing floor space usage.

- **Flexibility:** Modular design allows easy upgrades, maintenance, and reconfiguration.

- **Safety and Compliance:** Designed to meet international standards such as IEC 61439 for low-voltage switchgear and IEC 61535 for installation connectors .

- **Ease of Installation:** Pre-cut panels, plug-in connectors, and flange openings simplify assembly and integration .

Considerations

When selecting a floor-standing secondary distribution box, consider:

- Required number of panels and load capacity.

- Environmental conditions (humidity, dust, temperature).

- Integration needs with existing electrical or automation systems.

- Future expansion and modularity requirements. Floor-standing secondary distribution boxes provide a robust, flexible, and safe solution for distributing electrical power in environments where centralized or wall-mounted distribution is insufficient, making them essential for modern electrical infrastructure .

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

