ZITHA TECH SPECIALTY CABLES (Pty) Ltd

Small horizontal distribution box



Overview

Compact Distribution Boxes These distribution boxes are primarily used in electrical distribution panels, control cabinets, and building management systems.

Key Takeaways

A horizontal small distribution box is a compact, modular electrical enclosure designed for safe and organized power distribution, suitable for residential, commercial, and industrial applications.Overview

Horizontal small distribution boxes are designed to house circuit breakers, fuses, and other electrical components in a compact, organized manner. They are ideal for installations where space is limited but reliable power distribution is required. These boxes often feature modular designs, allowing for flexible expansion and customization according to the number of circuits or modules needed .

Key Features
• Modular Structure: Many horizontal boxes, such as Panasonic Modular Distribution Boxes, offer 16- or 32-module bases with horizontal and vertical expandability, enabling seamless integration of multiple units .

• Mounting Options: Suitable for both flush and surface mounting, making them adaptable to different installation environments .

• Protection Ratings: High-quality boxes provide IP30 to IP65 protection, ensuring resistance to dust, moisture, and mechanical impact, with some models offering IK08 impact resistance .

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• Material and Safety: Constructed from flame-retardant, halogen-free materials, these boxes minimize fire risk and enhance durability .

• Accessibility: Features like 180° openable covers, transparent or opaque panels, and tool-free cable insertion simplify installation and maintenance .

• Integrated Terminals: Screwless PE/N terminals allow for quick and secure connection of protective and neutral conductors .

Applications

Horizontal small distribution boxes are suitable for:

• Residential buildings: Compact fuse boxes for apartments or houses.

• Commercial units: Small offices, workshops, or retail spaces requiring organized power distribution.

• Technical rooms: Space-saving solutions for control panels or utility rooms.

• Industrial setups: Modular units for machinery or equipment requiring multiple circuits .

Popular Brands and Options

• Panasonic Modular Distribution Boxes: Stylish, modular, and expandable with transparent or opaque covers .

• Eaton Compact Distribution Boxes: Surface or flush-mounted, IP30 protection, multiple rows for flexible configurations .

• Spelsberg AK Compact Series: IP65 rated, tool-free installation, halogen-free, suitable for indoor standard installations .

• DISTRO-DIRECT Type 10 and 11 Series: Modular compact units with various input/output options, available with or without protective breakers .

Conclusion

A horizontal small distribution box provides a safe, flexible, and space-efficient solution for electrical distribution. When selecting a box, consider the number of modules, protection rating, mounting type, and expandability to ensure it meets the specific requirements of your installation. High-quality options from brands like Panasonic, Eaton, and Spelsberg combine functionality, safety, and ease of installation for modern electrical systems.

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This article covers all aspects of the distribution box and emphasizes the distribution and protection role of the

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