ZITHA TECH SPECIALTY CABLES (Pty) Ltd

Mobile electrical distribution box for houses



Overview

A distribution box is a device that, as the name suggests, is designed to distribute electrical power.

Key Takeaways

Mobile electrical distribution boxes provide a portable, safe, and flexible solution for distributing electricity in residential or temporary setups.

Overview

Mobile distribution boxes, also known as portable power distribution units (PDUs), are designed to safely distribute electrical power from a main supply to multiple outlets. They are commonly used in construction sites, events, exhibitions, and increasingly in residential settings for temporary power needs, renovations, or outdoor activities . These units are compact, portable, and often come with handles, protective housings, and stackable designs for easy handling .

Key Features
• Portability: Lightweight or compact units with ergonomic handles allow easy movement and setup .

• Safety: Equipped with residual current devices (RCDs), miniature circuit breakers, and master switches to prevent overloads and electrical hazards .

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• Protection: Many units offer IP44 to IP69 ratings, providing protection against dust, splashes, and even heavy water exposure, making them suitable for indoor and outdoor use .

• Versatile Outlets: Can include standard earthing contact sockets, CEE sockets, or specialized connectors depending on the application .

• Durability: Housings are often made from break-resistant plastics or metal frames with edge protection to withstand physical impacts .

• Customizable: Some manufacturers offer tailor-made solutions to match specific voltage, current, or connector requirements .

Applications in Residential Settings

• Temporary power during renovations: Provides multiple outlets without rewiring the house.

• Outdoor events or garden projects: Safe distribution for lighting, tools, or appliances.

• Emergency backup: Can be connected to generators to supply essential circuits.

• Camping or mobile setups: Compact units like the STECKY 14 allow safe outdoor use with IP44 protection .

Selection Considerations

• Power Capacity: Ensure the unit can handle the total load of connected devices. Residential units typically range from 2.5 kW to higher capacities depending on the number of outlets.

• Number and Type of Outlets: Choose based on the devices you plan to connect (standard 230 V sockets, CEE connectors, etc.).

• Protection Rating (IP): For outdoor or wet areas, select higher IP ratings (IP54–IP69).

• Safety Features: Look for RCDs, circuit breakers, and surge protection.

• Mobility and Size: Consider weight, handles, and compactness for easy relocation.

Recommended Options

• Compact portable units with side handles and protective housings for indoor use .

• Wieland WIV distribution boxes for flexible, pluggable setups with high safety standards .

• STECKY 14 by as-Schwabe: Outdoor-ready, IP44, robust housing, suitable for temporary residential or camping use .

• Tailor-made PDUs from INDU-ELECTRIC® or GIFAS for specific residential or mobile requirements .

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Mobile electrical distribution boxes offer a safe, flexible, and convenient solution for temporary or mobile power distribution in homes, combining portability, protection, and adaptability to different residential needs.

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