

Workshop Standard Level 1 Power Distribution Box



AI Overview

A Level 1 Power Distribution Box is a primary distribution unit designed for safe, reliable power supply in workshops and construction sites, typically handling high-voltage input and distributing it to multiple circuits with integrated protection.

Overview A Level 1 distribution box serves as the primary power distribution unit, receiving electricity from the main transformer or supply line and distributing it safely to secondary circuits or equipment. It is commonly used in workshops, industrial facilities, and construction sites where multiple machines or tools require reliable power.

Key Features

- Voltage and Current Ratings:** Level 1 boxes can handle high-voltage inputs, often ranging from 110V to 400V, and are designed to supply multiple downstream circuits.
- Integrated Protection:** They include main circuit breakers (MCBs), earth leakage protection, and sometimes fuses to protect both the equipment and personnel.
- Construction and Materials:** Typically made from glass-fibre reinforced polyester (GRP) or metal enclosures, providing durability and resistance to harsh workshop environments.
- Ingress Protection:** Many Level 1 boxes meet IP55 or IP66 standards, ensuring protection against dust, water jets, and outdoor conditions.
- Internal Components:** The main bus bars are usually copper, ensuring good conductivity and reliable contact. Internal metering may be included for monitoring voltage and current.
- Sockets and Outlets:** Equipped with multiple outlets, including CEE plugs, to accommodate different equipment requirements.

Applications

- Workshops and Factories:** Powering machinery, tools, and lighting systems.
- Construction Sites:** Providing temporary electricity for equipment and tools, ensuring compliance with safety standards.
- Industrial Environments:** Can be used in hazardous zones with ATEX-certified versions for explosive atmospheres.
- Safety and...**

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Power supply in the workshop

To ensure an optimal power supply in the workshop, it makes sense to install a sub-distribution or main distribution. Such a distribution makes it possible to distribute power to different places in the

How to Choose the Right Distribution Box for Your Home or Workshop

Learn how to choose the right distribution box for your home or workshop. Discover sizing rules, component selection, and strict electrical safety standards.

Contact Us

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