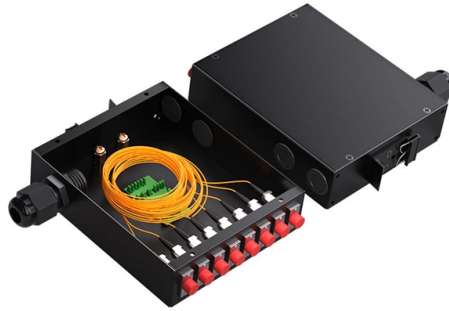


Power Distribution Box Interface



AI Overview

The power distribution box interface is the set of connection points where incoming power is received and outgoing circuits are connected, typically including terminals for Earth, Neutral, and phase lines.

Overview of the Interface

A power distribution box, also called a PDU, distro, or distribution panel, acts as the central hub for electricity, receiving power from the main supply and distributing it to multiple circuits safely and efficiently. The interface is where all electrical connections are made, allowing technicians to connect incoming power lines and outgoing circuits for lighting, machinery, or other equipment.

Key Components of the Interface

- **Earth (Ground) Terminal:** Ensures safety by connecting the system to the ground. In some systems, the Earth connection is made first and disconnected last to prevent hazards.
- **Neutral Terminal:** Completes the electrical circuit and balances the load across phases. Some distribution boxes allow skipping this step if fewer ports are used.
- **Phase Terminals (L1, L2, L3):** Connect the live wires for single-phase or three-phase power distribution. These are usually clearly labeled and may include mechanical keys to prevent incorrect connections.
- **Circuit Breakers and Fuses:** Protect each outgoing circuit from overload or short circuits. These are part of the interface that allows safe connection and disconnection.

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