

Power Distribution Box Attributes

Article Overview

A power distribution box safely distributes electrical power from a main source to multiple circuits, featuring protective devices, bus bars, internal wiring, and optional smart monitoring systems.

Core Functions

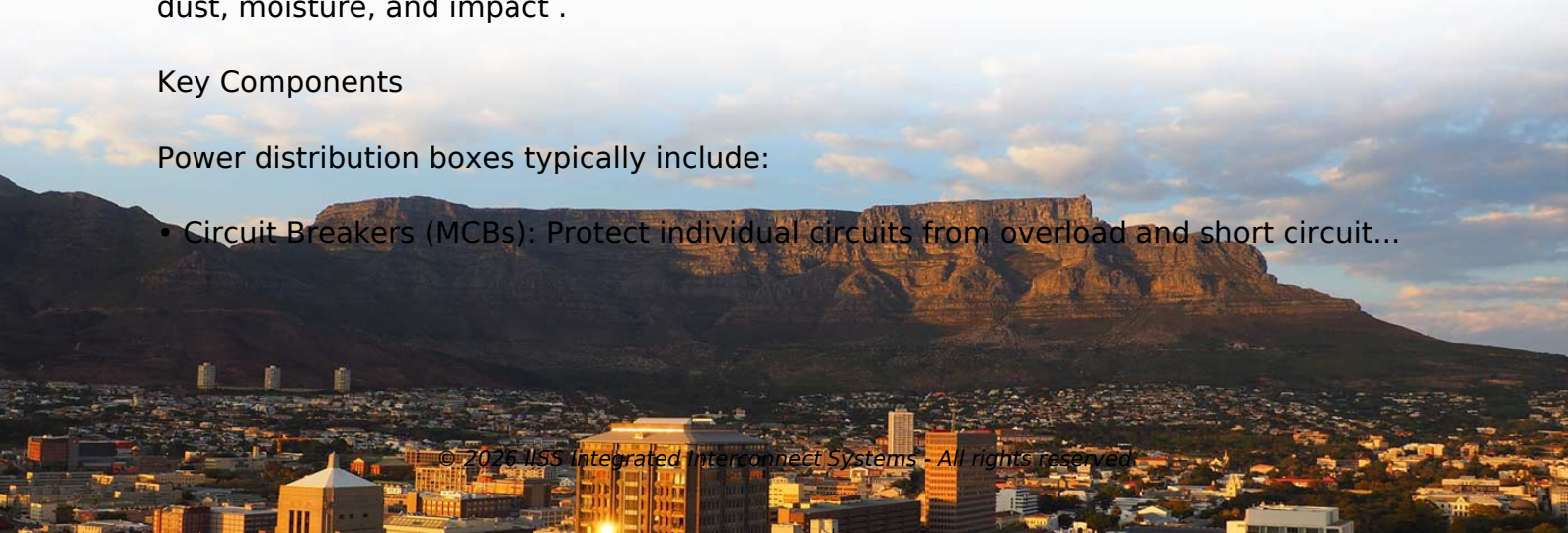
A power distribution box (PDB), also called a distribution board, DB box, or PDU, serves as the central hub for electrical power management. Its primary functions include:

- **Distribution:** Routes electricity from the main supply to multiple circuits in homes, offices, or industrial setups, ensuring balanced load distribution and preventing overloads .
- **Protection:** Uses circuit breakers, fuses, RCDs, RCCBs, or RCBOs to prevent damage from overcurrent, short circuits, or earth leakage .
- **Isolation:** Provides a means to disconnect circuits for maintenance or emergencies.
- **Connection:** Organizes live, neutral, and earth conductors efficiently.
- **Containment:** Protects users from live parts and shields internal components from dust, moisture, and impact .

Key Components

Power distribution boxes typically include:

- **Circuit Breakers (MCBs):** Protect individual circuits from overload and short circuit...



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Distribution board

A distribution board (also known as panelboard, circuit breaker panel, breaker panel, circuit breaker, electric panel, fuse box or DB

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Contact Us

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