

Distribution box interface box



Summary of Content

A distribution box, also called a DB box or interface box, is an electrical enclosure that safely receives incoming power and distributes it to multiple circuits while providing protection, organization, and monitoring capabilities.

Overview

A distribution box is a central hub in electrical systems, used in homes, offices, factories, and industrial plants. It divides incoming electrical power into individual circuits, ensuring safe and efficient distribution. It also houses protective devices such as circuit breakers, fuses, RCDs, RCBOs, surge protective devices, and isolators to prevent overloads, short circuits, and earth faults, protecting both people and equipment .

Key Functions

- **Distribution:** Splits the main supply into multiple outgoing circuits.
- **Protection:** Disconnects faulty circuits automatically using breakers or fuses.
- **Isolation:** Allows safe disconnection for maintenance or emergencies.
- **Connection:** Organizes live, neutral, and earth conductors.
- **Containment:** Protects internal components from dust, moisture, impact, and environmental stress .

Components

Typical components inside a distribution box include:

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What Is a Distribution Box?

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