

Complete set of 3-level power distribution box for construction site



AI Overview

A three-level power distribution system on construction sites consists of primary, secondary, and tertiary distribution boxes, each with specific roles, protection devices, and installation requirements to ensure safety and reliable power delivery.

Primary Distribution Box The primary distribution box serves as the main distribution point, receiving three-phase power from the transformer (typically 0.4 kV) and distributing it to secondary boxes . Key features include:

- Equipment:** Main circuit breaker, main fuse, isolating switches, and copper busbars for optimal conductivity
- Protection:** Shunt isolation and shunt leakage protection switches.
- Installation:** Bottom-in and bottom-out cable entry, front door access, rainproof design for outdoor use
- Function:** Supplies power to secondary distribution boxes without directly powering end-use equipment.

Secondary Distribution Box The secondary distribution box acts as an intermediate panel, routing power from the primary box to specific zones, buildings, or floors . Key aspects include:

- Equipment:** General isolation switch, circuit breakers, fuses, and residual current devices (RCDs) for zone-level protection
- Protection:** Provides two-level protection when combined with tertiary boxes, ensuring safe disconnection in case of faults or leakage currents.
- Installation:** Inner and outer door design, spray-painted exterior, rainproof top, suitable for field work
- Function:** Handles three-phase loads such as motors or machinery and distributes power to tertiary boxes.

Tertiary Distribution Box The tertiary distribution box is the final distribution point, delivering power to individual equipment or temporary outlets . Key points include:

- Equipment:** Isolation switch, leakage protector, and circuit breakers for each connected device.
- Protection:** Implements the principle of “one machine, one switch, one leakage, one box, one lock,” preventing multiple devices...

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Temporary Power Distribution Box for Construction

The design shown in the reference images brings together an IP-rated outdoor electrical enclosure, industrial CEE socket distribution box layout,

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Business Standard

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