

Plan view of the distribution box



Article Overview

A plan view of a distribution box shows the top-down layout of components, wiring paths, and terminal arrangements for safe and efficient electrical distribution.

Overview

A distribution box, also known as a distribution board or panel, centralizes circuit protection, switching, and power distribution for a building or machine. The plan view provides a top-down perspective that helps visualize the placement of circuit breakers, busbars, terminal blocks, and cable routing, which is essential for installation, maintenance, and troubleshooting .

Key Elements in a Plan View

- **Main Protective Devices:** Circuit breakers (CBs) or miniature circuit breakers (MCBs) are positioned to allow easy access and clear labeling.
- **Busbars:** Horizontal or vertical busbars are shown connecting the main supply to individual circuits.
- **Terminal Blocks:** Clearly numbered terminals for input and output connections, often with color-coded wiring for phase, neutral, and protective earth.
- **Cable Routing:** Paths for incoming and outgoing cables, including top or bottom entry points, are indicated to prevent congestion and ensure safety.
- **Grounding and Segregation:** PE terminals and separation of high-voltage and control wiring are marked to comply with safety standards .

Standards and Compliance...

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