

General Distribution Box Models and Specifications



Overview

Distribution Box Specifications And Models There are many specifications and models of Distribution box. The following are some Distribution box catalogue.

Key Takeaways

Distribution boxes come in various models such as TOP-TS, TOP-TF, TOP-LS, TOP-PS, TOP-PF, and TOP-S, with specifications covering dimensions, mounting, number of ways, materials, and protection ratings. Common Models and Configurations

Distribution boxes are available in multiple models to suit different applications:

- TOP-TS, TOP-TF, TOP-LS, TOP-PS, TOP-PF, TOP-S: These models range from 1-way to 36-ways, accommodating different circuit requirements. Dimensions (length, width, height) vary by model to fit installation needs .
- Outdoor vs Indoor: Outdoor boxes are typically fabricated from 2 mm GI sheet steel with reinforced structures, slanted roofs for water runoff, and overhangs to protect from weather .
- Mounting Options: Boxes can be wall-mounted or floor-mounted, with provisions for secure fixing and earthing points on either side .

Materials and Construction

- Body Material: Mild steel or galvanized steel for durability and corrosion resistance.



- **Door and Locking:** Doors often feature concealed hinges and Godrej-type 3-position locking systems for security. Handles and locks are designed to resist tampering and environmental damage .

- **Insulation and Barriers:** Internal barriers and insulation prevent heat transfer and electrical faults between MCCBs or bus bars .

Protection Ratings and Standards

- **IP Ratings:** Many boxes conform to IP-55, ensuring protection against dust and water jets .

- **Impact Resistance:** Some models meet IEC 62262 IK10, providing high mechanical impact resistance .

- **Testing:** Type-test certificates from CPRI or government-approved laboratories are often required to verify compliance .

Electrical and Technical Specifications

- **Bus Bars:** Copper flat bus bars (e.g., 25x4 mm) are commonly used, with proper spacing for heat dissipation .

- **Cable Entry:** Heavy-duty, double compression cable glands for incoming and outgoing cables are standard .

- **MCCB Integration:** Provision for 4-pole MCCBs for main supply and 3-pole MCCBs for outgoing feeders, with neutral unbalance protection .

- **Wiring Indicators:** Some units include PNP or NPN status indicators for monitoring circuit status .

Dimensions and Capacity

- **Distribution boxes** are available in various sizes, typically ranging from compact 65x65 mm enclosures to larger 361x254 mm units, with multiple cover heights and smooth or metric-te surface options .

- **The number of ways** (1-way to 36-ways) determines the number of circuits that can be accommodated, influencing the internal layout and bus bar arrangement .

Summary

When selecting a distribution box, consider model type, number of ways, material, IP and IK ratings, mounting type, and internal configuration. Compliance with standards such as IS 13947, IEC 62262, and IP-55 ensures safety, durability, and suitability for both indoor and outdoor installations .

Article Content

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There are many specifications and models of Distribution box. The following are some

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This document provides specifications for various distribution boxes including dimensions, mounting sizes, and number of ways. It

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Learn how to choose a distribution box and understand its internal structure, including MCBs, busbars, neutral bars,

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1. SCOPE: This Specification covers the design, manufacture, testing at works and supply of Distribution Boxes made out of CRCA

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A distribution box, also called an electrical distribution box, distributes incoming power to

Distribution board

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

Electrical Boxes

Electrical Boxes: Junction Box, Outlet Box, Single Gang, 2 Gang Electrical Boxes vary in size, material, number of gangs, and shape

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TECHNICAL SPECIFICATION FOR DISTRIBUTION BOARDS & LIGHTING PANELS SPECIFICATION NO. PE-TS-434-558-E002

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