

West Asia Power Distribution Box Model Specifications



Overview

Dimensions and Specifications of West Asian Lighting Distribution Boxes In summary, West Asian lighting distribution boxes are robust, modular, and versatile.

Key Takeaways

West Asia power distribution boxes are designed with metal or flame-retardant enclosures, support multiple circuit breakers, and comply with IP-55 protection standards for safe and reliable electrical distribution.

Construction and Materials

Most distribution boxes in the region, such as the HUX-50 series, are made of metal enclosures with panels of flame-retardant ABS material. Outdoor LT distribution boxes are typically fabricated from 2 mm galvanized steel sheets with reinforced structures to ensure durability and mechanical strength. Roofs are often slightly slanted with overhangs to prevent water ingress, and doors use Godrej-type 3-position locking systems for security. Dimensional tolerances are generally ± 3 mm for residential boxes and $\pm 10\%$ for industrial models.

Installation and Environmental Conditions

Distribution boxes can be flush-mounted on hollow walls or surface-mounted on non-combustible walls, and should be installed vertically. They are designed for altitudes up to 2,000 meters and ambient temperatures ranging from -25°C to $+40^{\circ}\text{C}$, with temporary exposure up to $+60^{\circ}\text{C}$ during construction. Outdoor boxes conform to IP-55 protection, ensuring resistance to dust and water.

Electrical Components

Key components include:

- Circuit Breakers (MCB/MCCB) for overload and short-circuit protection .
- Residual Current Devices (RCCB/RCBO) for detecting phase imbalances and enhancing safety .
- Bus Bars made of copper or copper flat strips (e.g., 25x4 mm) for efficient current distribution .
- Neutral and Grounding Links to ensure proper earthing and safety .
- Cable Glands for incoming and outgoing cables, often heavy-duty and double-compression type .
- Optional surge protective devices and energy monitoring modules for smart DB boxes .

Configuration and Capacity

Distribution boxes are available in residential, commercial, and industrial configurations. Typical features include:

- Main switch and multiple outgoing circuits.
- Provision for one bus bar arrangement with 4-pole MCCB and outgoing feeders with 2- or 3-pole MCCBs .
- Spare circuit slots recommended at 25% for future expansion .
- Color-coded insulation or phase-colored paint for easy identification (Red, Yellow, Blue, Black) for three-phase systems .

Safety and Compliance

- Boxes must be reliably grounded during installation .
- Compliance with IS 13947 standards for MCCBs and other protective devices .
- Type-test certificates for impulse and short-circuit tests from approved laboratories are required for industrial models .
- Doors and hinges are designed to prevent tampering and corrosion, with metallic or heat-resistant insulating barriers between components to prevent overheating .

Summary

West Asia power distribution boxes combine robust construction, versatile installation options, and advanced electrical protection. They are suitable for residential, commercial, and industrial applications, with options for smart monitoring, surge protection, and modular expansion. Proper selection depends on load requirements, environmental conditions, and compliance with local electrical codes .

Article Content

Dimensions and Specifications of West Asian Lighting Distribution Boxes

In summary, West Asian lighting distribution boxes are robust, modular, and versatile, with a wide range of dimensions and

Model

PDB Extension for "N" wires AC Power from Power Connection Box MCB 4P 63A Radio Equipment 3 x MCB 1P 40A

WESTERN 6506GU 6 Outlet Temporary Power Distro

The 6506GU 6 Outlet 50-Amp Single Phase portable power box

TECHNICAL SPECIFICATION FOR LT DISTRIBUTION BOX

This specification covers the design manufacture, shop testing, loading, transportation and delivery at sub-station site of 33KV,

Distribution box catalogue | PDF

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

Distribution Boxes

Distribution Boxes Key Features High Thermal Stability - ASA Plastic Transparent Polycarbonate Door UV Stable / Halogen Free

Produkte

Distribution box Rubber Handy 6 Robust full rubber housing, impact resistant, oil-, UV- and acid resistant. Protected with a ground

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Outdoor Electrical Distribution Box Specifications: NEC

Complete specification guide for outdoor electrical distribution boxes covering NEC Article

Requirements And Specifications For Installation Of

In flammable and explosive environments, explosion-proof distribution boxes should be

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RANGE & SPECIFICATIONS: Sr. No. Product Code Inside Dimensions (mm] H x W x D
Typical Applications

TECHNICAL SPECIFICATION I.R.O. 63,100,160 & 315 KVA

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

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TECHNICAL SPECIFICATION FOR LT DISTRIBUTION BOX

General Technical Particulars for LT Distribution Boxes : - The L.T. Distribution Boxes should be of the dimensions as per the

Distribution Box, Distribution Board for Power Distribution Systems ...

A distribution board (also known as panelboard, breaker panel, electric panel, DB board or DB box) is a component of an electricity

Distribution Box – Astryd Power Pvt. Ltd.

A distribution box is an essential component in electrical systems, serving as the central point for distributing electricity to various

Understanding Power Distribution Boxes: Types, Features, and

This guide delves into the intricacies of power distribution boxes, shedding light on their design, functionality, and

Complete Guide For Distribution Boxes Types

Distribution boxes, also known as electrical distribution boards or panels, are pivotal components in electrical systems, ensuring the

Distribution Box

Space and cost saving solution Amphenol LTW's distribution boxes facilitate efficient cable management, easy installation with pre

TECHNICAL SPECIFICATION FOR LT DISTRIBUTION BOX

TECHNICAL SPECIFICATION FOR LT DISTRIBUTION BOX VOL-II(TS) E12-IX- LT DB Page-2 of 9 L.T. DISTRIBUTION BOX FOR

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Catalogue 2022

The knockouts, which are usually circular in shape, create an opening to accommodate industry standard conduit sizes used in

TECHNICAL SPECIFICATIONS FOR A. C. DISTRIBUTION

SCOPE: This specification covers the design, manufacturing, testing at works and supply of Indoor type A.C. Distribution Boards for

West Bengal State Electricity Distribution Co. Ltd.

The DCDB box are to manufacture with suitable mounting arrangement on wall/steel support by means of 4 nos. 25X6 mm size

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Product Range Waterproof Distribution Box Series 14 enclosure families across four application groups — outdoor

Produkte

Distribution box Rubber Handy 6 Robust full rubber housing, impact resistant, oil-, UV- and acid resistant. Protected with a ground

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Power Distribution Boxes

Custom power distribution boxes featuring precise sheet metal fabrication, designed for efficient power management. Available in

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Distribution Box Guide: Types, Components & Solutions

The distribution box (DB box) helps safely and efficiently distribute electrical power. Today, electrical systems are

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Distribution Boxes shall have Isolator (Switch Disconnecter) on incoming circuit and Porcelain CUTOUT fuse base disconnecter on

Technical documentation

Our standards and supporting documents outline the requirements and criteria required when planning and designing the Western

Product Solutions

Our comprehensive design capabilities - Lighting, Multi Cable Transit (MCT), UPS/CBS, Cable Tray/Ladder, 2D CAD drawings & 3D

Distribution boxes - For modular and decentralized solutions

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

