

XM Distribution Box Specifications and Dimensions

Article Overview

XM Distribution Boxes are versatile indoor electrical distribution units designed for AC 220/380V networks, supporting rated currents from 6A to 250A with modular or enclosure designs for surface or recessed mounting.

Electrical Specifications

- o Rated Voltage: AC 220-250V (single-phase), AC 380-400V (three-phase)
- o Nominal Frequency: 50Hz (compatible with 60Hz)
- o Rated Current: 6-250A depending on model
- o Busbar System: Three-phase four-wire (3P4W) or three-phase five-wire (3P5W)
- o Protection Class: IP30 for indoor use
- o Circuit Protection: Supports installation of MCBs (miniature circuit breakers), residual-current devices, and overvoltage/undervoltage protection devices

Physical and Structural Features

- o Design Types: Enclosure type (dimensions based on overall product size) and modular type (based on number of modules for MCBs)
- o Material: All-metal construction for durability and safety
- o Mounting Options: Surface-mounted or recessed into walls
- o Box Structure: Typically three-part detachable design (box bottom, mounting bracket, and cover)
- o Terminal Blocks: Equipped with zero line (N) and grounding (PE) terminals
- o Cable Entry: Knock-out holes on top and bottom; maximum incoming cable size up to 16 mm²
- o Guide Rails: Adjustable horizontally and vertically to accommodate uneven wall surfaces
- o Transparent Cover Option: XM5 series allows visual inspection of circuit breaker status

Environmental and Installation Requirements

- o Ambient Temperature: -5°C to +40°C, 24-hour average ≤ +35°C
- o Relative Humidity: ≤50% at +40°C, up to 90% at +20°C (non-condensing)
- o Altitude: ≤2000 meters above sea level
- o Installation Inclination: ≤5 degrees
- o Vibration and Impact: No severe vibration, impact, or corrosive environments
- o Pollution Grade: Third grade, suitable for standard indoor conditions

Applications

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XM Distribution Boxes are widely used in:

- o Residential buildings, apartments, and high-grade office buildings
- o Factories, workshops, and industrial enterprises
- o Hotels, ports, railway stations, airports, and warehouses
- o Lighting distribution and small power distribution systems
- o Temporary power distribution setups

Customization and Accessories

- o Mounting Plates: Detachable galvanized or aluminum-zinc coated plates for easy installation
- o Doors: Standard hinge connection for quick assembly
- o Flexible Inlet/Outlet Lines: Can be installed from top or bottom according to user requirements
- o OEM/ODM: Available for customized dimensions and configurations XM Distribution Boxes provide a reliable, modular, and adaptable solution for indoor electrical distribution, combining safety, flexibility, and compliance with IEC60349-1 and GB7251 standards .

Overview XM series integrated distribution box/cabinet is suitable for AC frequency 50Hz, rated voltage 220V or 400V single-phase

XM Distribution box XM series integrated distribution box/cabinet is a series of products developed by our company on the basis of

The XM series lighting and power dual-supply distribution boxes are available in three variants: universal

XM series distribution boxes are all metal economical switch boxes, which are widely used in residential buildings, high-grade office

EXM's Polyester Enclosure allows users to customize and configure enclosures by selecting material, dimensions, and specifications

Distribution Box/Xm Cabinet/ Wall Mount Enclosure/ Electrical Box, Find Details and Price about Wall Mount Enclosure Electrical

XM series distribution box is a kind of distribution device designed and assembled into various control functions according to

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The XM series distribution box is a critical component in modern electrical and power distribution systems. Designed to ensure safe,

This document provides specifications for various types of plastic distribution boxes, including their

DSY-XM type low-voltage distribution box is a compact, modular indoor power distribution equipment designed for 220V/380V AC

Discover the essential guide to XM Low Voltage Lighting Distribution Boxes, designed for homeowners and

VOL-II(TS) E12-IX- LT DB Page-6 of 9 General Technical Particulars for LT Distribution Boxes : - 1) The L.T. Distribution Boxes

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

Exterior and interior dimensions. 3 The dimensions of the technical drawing are in millimetres and may vary depending on the model

XM power distribution box (hereinafter referred to as metering box) is suitable for use as metering device of AC 50HZ TN-C system

Description: Composite Split DC Micro Style Distribution Boxes Four-pin, One Signal per Port Cable Connector Distribution Box Eight

Web: <https://supremeacademicresearch.co.za>

