

Complete Set of Electrical Distribution Box Models



Overview

The housing of these electric cabinets and fuse boxes models are characterized by modeled embossing, screw holes, and smoothed edges of the box covers.

Key Takeaways

Building electrical distribution boxes include a wide range of models such as Main Distribution Boards, Sub Distribution Boards, Meter Panels, Consumer Units, and specialized enclosures for residential, commercial, and industrial applications.

Core Types of Distribution Boxes

Main Distribution Board (MDB) – Central hub for distributing electricity to various sections of a building, equipped with bus bars, MCCBs, and support equipment for overload protection and power management. Sub Distribution Board (SDB) – Transfers electricity from the main board to specific areas like garages, parking lots, or individual floors, providing localized control. Meter Panel – Houses electrical meters to monitor power consumption, often including primary switches, fuses, and RCDs.

Panel Fuse Bank – Contains multiple fuses for circuit protection, commonly used in industrial or commercial setups. Unitized Panel – Compact panels integrating multiple protective devices and switches for efficient space utilization. Transfer Switches –Manual Transfer Switch: Operates manually to switch loads between main and backup power.



Automatic Transfer Switch: Automatically manages power transfer using timers or sensors. Consumer Unit – Residential distribution box with circuit breakers or fuses, RCDs, and switches to protect circuits from overloads. Enclosed Switchgear – Provides power control and protection for medium-voltage systems (1 kV to 75 kV), including switches, breakers, and circuits.

Additional Types and Configurations

Surface Mounted D

B Boxes – Installed on walls, suitable for retrofits and industrial environments.

Flush Mounted D

B Boxes – Embedded into walls for aesthetic and space-saving purposes.

Pole Mounted D

B Boxes – Outdoor applications such as street lighting and utility distribution.

Single Phase D

B Boxes – Designed for residential or small commercial loads.

Three Phase D

B Boxes – Industrial or large commercial facilities requiring higher power capacity.

Lighting Distribution Boxes – Dedicated to lighting circuits with protective devices.

Power Distribution Boxes – Support sockets, equipment, and heavy machinery.

Control Distribution Boxes – Integrate control components like relays, contactors, and timers for automation systems.

Weatherproof and Explosion-

Proof Boxes – Specialized enclosures for harsh or hazardous environments.

Plastic and Metal Enclosures – Materials include galvanized steel, stainless steel, aluminum, and high-grade plastics for durability and corrosion resistance.

Smart D

B Boxes – Include energy monitoring units, communication modules, and remote control capabilities.

Key Components Across Models

Circuit Breakers and Fuses – Protect circuits from overloads and short circuits.

Residual Current Devices (RCCB/RCD) – Detect imbalances and prevent electric shocks.

Bus Bars and Neutral Links – Conduct electricity and provide return paths.

Grounding Bus Bar – Ensures safety by directing excess current to the ground.
Enclosures – Protect internal components from dust, moisture, and mechanical damage.
Surge Protective Devices – Guard against voltage spikes and lightning strikes.

This comprehensive list covers the major models, configurations, and specialized types of building electrical distribution boxes, suitable for residential, commercial, and industrial applications, ensuring safe and efficient power distribution.

Article Content

Industrial Electric Power Distribution Box 3D Model

The housing of these electric cabinets and fuse boxes models are characterized by modeled embossing, screw holes, and smoothed edges of the box covers. The complete set of these electrical boxes

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BIM objects

Download free BIM objects for electrical including electrical - distribution as Autodesk Revit families, SketchUp, Autodesk, Vectorworks or ArchiCAD files.

Electrical Box: 3D models

Discover all CAD files of the "Electrical Box" category from Supplier-Certified Catalogs SOLIDWORKS, Inventor, Creo, CATIA, Solid Edge, autoCAD, Revit and many more CAD software but also as STEP,

Industrial Electrical Box

This is a realistic 3D model of an industrial low-voltage electrical distribution cabinet. The model includes detailed wiring, breakers, a power module, and a worn caution sign on the door.

Electrical Distribution Boxes for Power Distribution

From decentralized energy, signal and data distribution to distribution boxes for smart buildings, we offer the right solution. We mount any electronics in the

Complete Guide For Distribution Boxes Types

Distribution boxes, also known as electrical distribution boards or panels, are pivotal components in electrical systems, ensuring the safe and organized distribution of electrical power throughout

Customization of a complete distribution box

The general process of customizing a complete set of distribution boxes:

Requirement confirmation: Understand specific electrical parameters

Assembly Box|electric power distribution box

JUNON V12 series Distribution box, also known as assembly box, switch box and distribution board, is a complete set of equipment for centralized installation of switches, instruments, protective appliances

ABB in the United States

ABB is the Official Electrification Partner of NASCAR The ABB NASCAR Electrification Innovation Partnership will explore high-performance electric racing and create strategic

The Complete Guide to Distribution Box: Installation, Types & More

Introduction Electrical systems power our homes, offices, and industrial facilities, but behind every reliable electrical setup lies a crucial component that often goes unnoticed: the

Distribution Boxes Types - The Complete Guide

The power distribution boxes deliver electricity from the main electrical main to other circuits. Several distribution boxes are designed for specific use in

Distribution Box Guide: Types, Components & Solutions

Understand distribution boxes (DB boxes) in 5 minutes. Learn about types, components, functions, and uses. Find the perfect DB box for your needs.

How to Choose a House Distribution Box | CHINT global

A well-chosen distribution box ensures the safety and efficiency of your household electrical system. This article guides you through selecting a distribution box.

What Is an Electrical Distribution Box? A Complete Guide

An electrical distribution box is a centralized unit responsible for distributing electrical power across multiple circuits within various environments, including residential, commercial, and industrial settings.

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Electrical Distribution Box Diagrams | PDF | Power Engineering

This document provides a list of components in an electrical distribution box with their names and associated wiring diagrams. It includes tables of diodes, fuses, relays, and other components like

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