

List of Control Boxes and Distribution Boxes



Overview

Electrical Control Panels & Distribution Boxes: Sizes, This guide explores control panels, electrical boxes, breaker panels, bus bars, junction Distributio.

Key Takeaways

Control boxes manage and automate electrical equipment, while distribution boxes safely distribute power to multiple circuits.Distribution Boxes

A distribution box (DB box) is a central hub that distributes electrical power from a main supply to multiple circuits, ensuring safety and efficiency. Key features include circuit breakers, fuses, bus bars, and sometimes smart modules for energy monitoring and remote control . Distribution boxes are classified based on function and installation:

- Main Circuit Breaker Panel: Controls the entire electrical system; used in commercial and industrial applications .
- Main Lug Panel: Connects directly to a main breaker without a main switch; often used as a sub-panel .
- Sub Panel: Distributes power to specific areas, such as floors or sections of a building .
- Fuse Box: Older type using fuses instead of breakers for circuit protection .

- Indoor Distribution Boxes: For protected environments like homes or offices .
 - Outdoor Distribution Boxes: Designed for exposure to weather, requiring higher IP ratings and durable enclosures .
 - Material Variants: Plastic (thermoplastics like PC or ASA) or metal (stainless steel, powder-coated) depending on mechanical strength and environmental exposure .
- Control Boxes

A control box houses components that start, stop, regulate, and monitor machinery or processes. Unlike distribution boxes, control boxes focus on automation and operational control rather than power distribution . Common features include switches, push buttons, relays, contactors, PLCs, timers, and sensors. Types include:

- Small Control Box: External installation for controlling small devices with input devices like buttons or touch panels .
- Free-Standing Control Box: Self-supporting enclosures for large control panels, offering high stability and earthquake resistance .
- Industrial Control Boxes: Used in factory automation, elevators, pumps, and train systems; often include thermal protection, dust and waterproofing, and electromagnetic shielding .
- Material and Design Variants: Stainless steel, polyurethane foam packing, and ventilation features to protect sensitive electronics .

Key Differences

Feature	Distribution Box	Control Box
Function	Distributes electrical power to circuits	Controls and automates machinery/processes
Components	Circuit breakers, fuses, bus bars	Relays, contactors, PLCs, switches, sensors
Voltage Range	220V–690V, high current	24V DC to 400V AC, tailored to equipment
Application	Residential, commercial, industrial power distribution	Industrial automation, process control, machinery operation
Protection	Overload, short circuit, earth fault	Environmental protection, operational safety, automation logic

Manufacturers and Suppliers

Some notable control box manufacturers include Assured Automation, PanelTEK, API Alliance, Franklin Electric Co., OSRAM SYLVANIA, and M-Tech Control Corp . Distribution boxes are widely available from industrial electrical suppliers, with options for custom engineering, material selection, and integration services . This overview provides a clear distinction between distribution boxes for power management and control boxes for operational control, along with their types, applications, and key manufacturers.

Article Content

Electrical Control Panels & Distribution Boxes: Sizes,

This guide explores control panels, electrical boxes, breaker panels, bus bars, junction

Distribution Box vs Control Box vs Junction Box: Key

Learn the differences between distribution boxes, control boxes, and junction boxes.

Distribution Box Guide: Types, Components & Solutions

Understand distribution boxes (DB boxes) in 5 minutes. Learn about types, components, functions, and uses. Find

Differences Between Distribution Boxes, Switchgear, Control Boxes,

This article provides an in-depth breakdown of the technical boundaries between distribution boxes, switchgear, control boxes, and

63 Control Box Manufacturers in 2026

This section provides an overview for control boxes as well as their applications and principles. Also, please take a look at the list of

Distribution Box and Selection Guide: Internal Structure, Components ...

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

10 Distribution Board Types Explained [August 2026]

There are many types of distribution boards, each made for different uses. Some are great

Ultimate Guide To Distribution Boxes Db Boxes Types

This ultimate guide explains what a distribution box does, its internal components, common types, real

Complete Guide For Distribution Boxes Types

The correct choice and installation of distribution boxes are crucial for electrical safety, efficiency, and reliability. This guide provides

Electrical Distribution Box: Complete Panel Types

Learn what an electrical distribution box is in simple terms. Complete guide to panel types,

The Ultimate Guide to Distribution Box Types

Discover the key types of distribution boxes with NUOMAK's comprehensive guide. Learn about Main

Distribution Box vs Control Cabinet: Key Differences

Understand the difference between an industrial distribution box and a control cabinet. Learn

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

Understanding Distribution Boxes: Your Guide to Power

Distribution boxes help in organizing electrical circuits enabling proper organization in

myusawire

We would like to show you a description here but the site won't allow us.

Electrical Distribution Boxes -ZHENGKAI

A distribution boxes acts as the load center and main distributor of electrical power within a

ChatGPT: Chat, Work, Create & Code with AI

Use ChatGPT to answer questions, write, create images, complete work, and code—all in one place. Get started for free or

12 Different Types Of Electrical Panels Explained

Learn about the different types of electrical panels for your residential, commercial, and industrial needs and get tips

Electrical Control Panel Components Guide

A control panel is a box that contains electrical components required to run a factory

Electrical Distribution Box: Complete Panel Types

Learn what an electrical distribution box is in simple terms. Complete guide to panel types,

Power Distribution

Power Up with the Right Brands Whatever you're looking for – from 200 amp Square D main breakers and Leviton's load centers or

Breaker Boxes for Electrical Panel Systems | Lowe's

Breaker boxes support everyday electrical systems by helping you organize circuits and manage power distribution efficiently.

Distribution Boxes Types – The Complete Guide

Types of Distribution Boxes The electrical power distribution boxes are distribution boards or breaker panels.

What Is a Control Box? Components, Types, and

A control box also differs from a basic distribution box. A distribution box mainly divides

Distribution Board vs Box: Which Do You Need?

A distribution board controls and protects multiple circuits, while a distribution box usually houses local wiring or

The difference of Distribution box,distribution cabinet and control box ...

Difference between control box and distribution box The control box is suitable for factories, mines, enterprises, shopping malls,

DB Boxes & Circuit Breakers for Sale

Which DB boards are best to buy? A distribution board (also known as panelboard, breaker panel, or electric panel) is a component

Understanding Distribution Boxes:A Comprehensive Guide

A distribution boxes is an essential device that manages the safe and efficient flow of electrical power throughout

What Is a Distribution Box?

A distribution box is a device that, as the name suggests, is designed to distribute electrical power. It takes the

12 types of distribution boxes and how to choose them

Key Factors in Choosing a Distribution Box Building Type and Size: Start with where it's going. For homes, a

The Ultimate Guide to Distribution Box Types

Discover the key types of distribution boxes with NUOMAK's comprehensive guide. Learn about Main

Distribution Box vs Control Cabinet: Key Differences

Understand the difference between an industrial distribution box and a control cabinet. Learn

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

Understanding Distribution Boxes: Your Guide to Power

Distribution boxes help in organizing electrical circuits enabling proper organization in

myusawire

We would like to show you a description here but the site won't allow us.

Electrical Distribution Boxes -ZHENGKAI

A distribution boxes acts as the load center and main distributor of electrical power within a

Electrical Control Panels & Distribution Boxes: Sizes,

This guide explores control panels, electrical boxes, breaker panels, bus bars, junction

Distribution Box vs Control Box vs Junction Box: Key

Learn the differences between distribution boxes, control boxes, and junction boxes.

Distribution Box Guide: Types, Components & Solutions

Understand distribution boxes (DB boxes) in 5 minutes. Learn about types, components, functions, and uses. Find

Differences Between Distribution Boxes, Switchgear, Control Boxes,

This article provides an in-depth breakdown of the technical boundaries between distribution boxes, switchgear, control boxes, and

63 Control Box Manufacturers in 2026

This section provides an overview for control boxes as well as their applications and principles. Also, please take a look at the list of

Distribution Box and Selection Guide: Internal Structure, Components ...

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

10 Distribution Board Types Explained [August 2026]

There are many types of distribution boards, each made for different uses. Some are great

Ultimate Guide To Distribution Boxes Db Boxes Types

This ultimate guide explains what a distribution box does, its internal components, common types, real

Complete Guide For Distribution Boxes Types

The correct choice and installation of distribution boxes are crucial for electrical safety, efficiency, and reliability. This guide provides

Electrical Distribution Box: Complete Panel Types

Learn what an electrical distribution box is in simple terms. Complete guide to panel types,

Electrical Control Panels & Distribution Boxes: Sizes,

This guide explores control panels, electrical boxes, breaker panels, bus bars, junction

Distribution Box vs Control Box vs Junction Box: Key

Learn the differences between distribution boxes, control boxes, and junction boxes.

Distribution Box Guide: Types, Components & Solutions

Understand distribution boxes (DB boxes) in 5 minutes. Learn about types, components, functions, and uses. Find

Differences Between Distribution Boxes, Switchgear, Control Boxes,

This article provides an in-depth breakdown of the technical boundaries between distribution boxes, switchgear, control boxes, and

Contact Us

Continue your research online:

Website: <https://jewelbluimages.co.za>

Technical inquiry: <https://jewelbluimages.co.za/contact.html>

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

