Double-row power distribution box



Overview

Discover efficient double rows distribution box solutions designed for optimal power distribution. Enhance your operations with reliable, durable equipment tailored to your needs.

Key Takeaways

A double-row power distribution box is an electrical enclosure designed to safely distribute electricity across multiple circuits, offering enhanced capacity, protection, and organization for residential, commercial, and industrial applications.

Overview

A double-row power distribution box is a type of distribution board that organizes and distributes electrical power into multiple circuits using two rows of circuit breakers or busbars. It is commonly used in low-voltage systems, typically below 1000 volts, to ensure safe and efficient power management while protecting connected devices and wiring from overloads, short circuits, and ground faults.

Construction and Materials

These boxes are usually made from galvanized steel or high-quality metal sheets with powder-coated finishes for durability and corrosion resistance. Some models, especially for automotive or marine applications, use glass fiber reinforced nylon, nickel-plated copper, and stainless steel for busbars and terminals to ensure insulation, corrosion resistance, and high current handling. The internal layout often includes DIN-rail mounting, separate cable compartments, and pre-punched knock-outs for easy wiring.

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Features

Key features of double-row distribution boxes include: Overload protection: Automatically interrupts current flow when it exceeds safe levels. Short circuit protection: Quickly disconnects circuits to prevent damage from excessive currents. Ground fault protection: Detects imbalances to minimize the risk of electric shock.

Multiple circuit capacity: Typically ranges from 6 to 60 circuits, depending on the model.

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P ratings: Commonly IP30 for indoor applications, ensuring basic protection against dust and contact. Optional smart features: Some modern boxes allow remote monitoring and control for improved efficiency. ApplicationsDouble-row power distribution boxes are versatile and used in various settings: Residential: Safe distribution for home lighting and appliances.

Commercial and Hospitality: Reliable power for offices, hotels, and public facilities. Industrial: Stable power for heavy machinery and production equipment. Engineering and Construction: Temporary or permanent power distribution on sites.

Automotive and Marine: Compact busbar distribution blocks for 12V systems, solar setups, and RVs.

Installation and Customization

These boxes can be customized based on circuit count, layout, and specific application requirements. Manufacturers often provide OEM/ODM services, allowing for tailored solutions with engineering support, material traceability, and quality inspections. Installation typically involves mounting the box securely, connecting incoming power, and distributing circuits via breakers or busbars.

Summary

A double-row power distribution box is a robust, versatile, and safe solution for managing multiple electrical circuits. Its dual-row design increases capacity and organization, while built-in protections and durable construction ensure reliability across residential, commercial, industrial, and specialized applications.

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Article Content

Double Rows Distribution Boxes

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Professional hardware manufacturer offering a dual-row electrical panel box with RCCB and MCB, ideal for power tools and industrial applications.

Distribution Board for Home & Commercial Space | GM Modular

This type of distribution box is used in residential and commercial buildings to distribute electricity to different circuits and protect them from overload or short-circuiting.

CATALOGUE General purpose enclosures Heavy duty and industrial

Applications Ideal for industrial automation and control, machinery and OEM. Electronic applications in the telecommunications industry. May also be used in tertiary and energy distribution applications.

ABB I Sub distribution boards

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DISTRIBUTION AT THE HEART OF POWER

With its new Increased Safety distribution system, Legrand offers three levels of service for so-called high criticality sites where it is impossible to shut down the network for maintenance (hospitals,

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Browse power distribution boxes with circuit breaker protection and multiple outlet configurations. Shop durable solutions for construction and emergency use.

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Electrical distribution boxes for modular power distribution and installation. Flexible distribution solutions for industrial and building electrical infrastructure.

Dual Row Boards | Elucian

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DISTRIBUTION AT THE HEART OF POWER

DISTRIBUTION AT THE HEART OF POWER With its XL3 enclosures, the DX3, DPX3, DPX, DMX3 ranges of circuit breakers and three types of distribution, Legrand offers powerful solutions adapted

Distribution Boards | Legrand DB Board for Safe Power

Legrand''s Distribution Boards deliver safe, reliable power distribution for homes, commercial spaces, and industrial applications, combining smart design, easy

TPN Double-Door Distribution Boards

A good distribution board regulates the power supply, ensuring safety and reliability. The best distribution board for you is one that is suited to your requirements. To help you make an informed

JINDOUZI Metal Electrical Box, 36 Position Circuit Breaker Box

JINDOUZI Metal Electrical Box, 36 Position Circuit Breaker Box, High Power Switch Power Distribution Box, Electrical Junction Box Suitable for Factories, Workshops, Electrical Rooms, Etc, DL1122:

Bus Bar 12V-48V 100A, Heavy Duty 4X 1/4" Posts and 12x 5/32

About this item The Power Distribution Block Bus Bar with 4x 1/4" (M6)stud posts and 12x 5/32" (M4)Screws; Max. Current: 300 Amp at 12V DC per connection. Max. voltage is 48V DC The Battery

Amazon : WayinTop PCB Double-Layer Wiring

Third: You can short-circuit any interface at both ends of the power distribution board to achieve the effect of a multi-point interface of single-pass circuit. □Built

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