UAE power distribution box dimensions



Overview

Learn how to choose the right electric db box for your UAE project. Our expert guide covers selection, sizing, and safety for lasting performance.

Key Takeaways

UAE power distribution boxes come in a variety of sizes, typically ranging from compact residential boxes to large industrial SMDB panels, with depths from 1. 5" to over 2 feet depending on application.

Residential and Commercial Distribution Boxes

For residential and light commercial applications, distribution boxes are generally compact and wall-mounted. Common dimensions include: Square and Octagonal Boxes: Depths of 1-1/2” to 2-1/8”, suitable for switches, receptacles, and lighting circuits. Rectangular Boxes: Depths of 1-7/8” to 2-1/8”, often used for multiple conductor runs and outlet devices.

Knockout Sizes: Typically ½”, ¾”, and 1” to accommodate wiring entry. These boxes are designed for indoor installation, providing safe housing for MCBs, RCDs, and wiring, with modular DIN-rail mounting options for easy configuration.

Industrial and Heavy-

Duty Panels



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For industrial or large commercial projects, Sub Main Distribution Boards (SMDB) and Main Distribution Boards (MDB) are used. Typical features and dimensions include: Ratings: Up to 800A, with incomers from 100A to 800A and outgoings from 30A to 630A. Enclosure: Electro-galvanized steel, powder-coated, suitable for floor or wall mounting.

Protection: IP65 rating for dust and water resistance, suitable for harsh UAE environments. Cabling Space: Ample room for top, bottom, and side cable entry, with busbars color-coded and insulated. Physical Size: While exact dimensions vary by manufacturer, industrial SMDB panels can range from 0.

6m to 2m in height, 0. 4m to 1. 2m in width, and 0.

2m to 0. 6m in depth, depending on the number of ways and amperage requirements.

Key Considerations

When selecting a distribution box in the UAE: Voltage and Current Ratings: Ensure compatibility with system voltage (e.g., 415V three-phase) and total load.

Short-

Circuit Capacity: Must meet or exceed prospective fault currents to prevent failure. Environmental Factors: High temperatures, humidity, and dust in the UAE require IP-rated, corrosion-resistant enclosures. Future Expansion: Plan for 20–25% spare capacity in outgoing ways to accommodate additional circuits.

In summary, UAE power distribution boxes vary widely in size depending on application, from compact residential boxes with depths around 1. 5–2. 1 inches to large industrial SMDB panels exceeding 2 feet in depth, with modular designs and robust enclosures to meet local environmental and safety standards.

Article Content

Mastering Electric DB Box Selection: A Guide for UAE & GCC ...

Learn how to choose the right electric db box for your UAE project. Our expert guide covers selection, sizing, and safety for lasting performance.

Distribution Box | Machined & Fabricated in UAE

Constructed from high-impact Carbon Steel, Stainless Steel, or Thermoplastic, our distribution boxes are built to withstand mechanical stress and environmental

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Our product range include the complete sizes of Octagonal, Square and Rectangular Boxes along with their respective covers. Available Depth Sizes: 1-1/2” & 2-1/8” for Square & Octagonal Boxes; 1-7/8”

Distribution Boards – Interplast

A distribution board, also known as panelboard or breaker panel is a component of an electricity supply system which divides an electrical power feed into

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Design Guide for Dubai: Electrical

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This document aims at establishing the minimum design standards for the design of electrical systems for buildings in Dubai. It covers the following topics: Design

Distribution Boards

Bahra Electric Distribution Boards (DBs) serve as essential systems for the safe and dependable distribution of electrical power within both residential and commercial environments, ensuring optimal

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The distribution box is the load center and electrical power distributor. A distribution box, also known as a distribution board, panel board, breaker panel, or electric panel, ensures that electrical power is

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Electricity Engineering Section

Final distribution board shall be provided at least two zones of earth leakage protection (30mA and 100mA) or (30mA and 30mA). 4.13. Breaker rating for lighting 6-15A for radial circuit 20A, for rings

Distribution Box | Machined & Fabricated in UAE

Distribution Boxes: Secure Centralized Power Management & Protection A Distribution Box (DB), also known as a breaker panel or electrical hub, is the

PowerPoint Presentation

We can also design & supply distribution boards to any non standard requirements. Please contact our sales/design department regarding such enquiries for technical details and physical dimensions.

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

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