Standard distribution box with two-stage double doors



Overview

Discover how E-abel designs custom dual-mount European standard distribution boxes for surface-mounted and flush-mounted installations.

Key Takeaways

A two-stage double door distribution box is an electrical enclosure designed for safe, accessible, and modular housing of wiring and protective devices, often featuring separate inner and outer doors for operational safety and serviceability.

Overview

A double door distribution box is an electrical enclosure that houses wiring, circuit breakers, fuses, and other protective devices for a building or industrial electrical system. The two-stage configuration typically includes an outer door for general access and an inner door or panel that provides access to live components, enhancing safety during maintenance. This design allows technicians to work on one section without exposing the entire system, reducing the risk of accidental contact with live parts.

Construction and Materials

Materials: Commonly made from CRCA sheet steel, mild steel, stainless steel (304/316), or fiberglass. Protection Ratings: IP42 is standard for indoor applications, while higher ratings like IP66 or NEMA 4X are available for industrial or outdoor use. Doors: Two independently hinged doors split the front panel, allowing partial access.

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The two-stage design may include an additional inner door or frame for live components. Gland Plates: Top and bottom removable plates with knockouts facilitate cable entry and exit.

Features and Options

Internal Layout: Insulated copper busbars, mounting plates, and configurable internal compartments for drives, PLCs, or terminal blocks. Safety: Padlockable three-point latching systems, IP-rated sealing, and optional internal lighting or ventilation. Customization: External dimensions, door swing direction, cutouts for HMIs, HVAC integration, and surface finishes (RAL powder coat, brushed stainless, or galvanised) can be specified.

Compliance: Many enclosures meet IEC/EN 60670-24, IEC/EN 62208, and IEC/EN 61439-3 standards for low-voltage assemblies.

Applications

Residential and Commercial: Compact distribution boards for small buildings or renovation projects. Industrial: Large motor control centers, multi-drive panels, substations, and process plants where wide enclosures require split access.

Safety-

Critical Installations: Two-stage doors allow technicians to isolate live components while accessing non-live sections, improving operational safety.

Installation Considerations

Width: Double doors are recommended for enclosures wider than 800mm; smaller enclosures typically use single doors for simplicity. Mounting: Wall-mounted or floor-standing options are available, with cable management kits and universal main cable boxes for organized wiring. Serviceability: The two-stage design ensures that maintenance can be performed without fully exposing live circuits, reducing downtime and risk.

In summary, a standard two-stage double door distribution box combines modularity, safety, and accessibility, making it suitable for a wide range of electrical distribution applications, from residential to heavy industrial installations. Proper selection involves considering enclosure width, protection rating, internal layout, and compliance with relevant standards.

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Stainless Steel Electrical Box with Two Doors

The box base is provided with cable outlets, and the door opens over 110 degrees with smooth rotation. It offers corrosion resistance, dust prevention, and rain

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Power Distribution Board- GM Modular A distribution board is also known as db board or main distribution board is part of an electricity supply system that divides power into smaller circuits. It has

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Distribution board

A distribution board (also known as panelboard, circuit breaker panel, breaker panel, circuit breaker, electric panel, fuse box or DB box) is a component of an electricity supply system that divides an

Double Door DB

Double Door Surface Mount Distribution Boards (DB) - Triple Row Double door DB comes with a main compartment and a triple way DB. Inner door or cover plates

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