

Dimensions of the New 380V Distribution Box

Article Overview

Typical 380V distribution boxes range from compact wall-mounted units around 200x200x120 mm to large freestanding cabinets up to 2200x1800x600 mm, depending on application and manufacturer.

Standard and Typical Sizes

Wall-mounted distribution boxes for 380V systems often have dimensions in the range of 200 x 200 x 120 mm up to 800 x 600 x 300 mm, suitable for smaller industrial or commercial installations where space is limited . Freestanding or floor-standing cabinets designed for higher current ratings and multiple circuits typically range from 1600-2200 mm in height, 600-1800 mm in width, and 300-600 mm in depth . These larger enclosures accommodate multiple breakers, contactors, relays, and measurement instruments, providing flexibility for industrial power distribution .

Manufacturer-Specific Example: XL-21 Series

The XL-21 low-voltage distribution box rated for 380V and 800A is a common industrial solution. It features a modular, dustproof cabinet with IP54 protection, constructed from cold-rolled steel. While exact dimensions can be customized, the standard XL-21 configuration is designed for efficient space utilization, allowing easy installation, cable termination, and future expansion . The cabinet supports flexible combinations of circuit breakers, contactors, and relays according to the single-line diagram of the installation.

Considerations for Choosing Dimensions

- o Internal layout: Ensure enough space for breakers, busbars, and wiring bend radius.
 - o Future expansion: Larger cabinets allow adding circuits without replacing the enclosure.
 - o Installation type: Wall-mounted units are smaller, while floor-standing cabinets are used for high-capacity industrial setups.
 - o Environmental protection: IP rating affects enclosure thickness and size; dustproof or splash-proof designs may require slightly larger dimensions .
- In summary, the dimensions of a 380V distribution box vary widely depending on current rating, number of circuits, and installation type. For small installations, compact wall-mounted boxes suffice, while industrial applications often require large freestanding cabinets like the XL-21 series, which can be customized to meet specific project requirements .

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Of course, the electrical box's dimensions have yet to be determined. Consider the real installation, look at the actual wiring

Mirage sub-main distribution boards have been designed for easy handling and quick, simple installation

Distribution box Rubber Handy 6 Robust full rubber housing, impact resistant, oil-, UV- and acid resistant. Protected with a ground

If you're like most electrical professionals, picking the right distribution box for your project can feel like navigating a

380V Power Distribution Box Electrical Boxes Panels Board for Building, Find Details and Price about Electrical Boxes Panels Panels

Fulleto Electric manufactures the robust XL-21 low-voltage power distribution box. Rated for 380V 800A, it offers superior dustproof

SP-XL low-voltage power distribution cabinet is suitable for three-phase three-wire, three-phase four-wire,

TAIXI PZ30 Plastic Electrical Distribution Box (with the same Merlin Gerlin MCB distribution box, also known as Merlin box), it is used

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