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Types of Electrical Distribution Boxes



Overview

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

Key Takeaways

Electrical distribution boxes come in various types, each designed for specific applications and environments, including Main Distribution Boards, Sub Distribution Boards, and Smart Distribution Boxes.Common Types of Electrical Distribution Boxes
•

Main Distribution Board (MDB):

• This is the primary distribution point where electrical power from the main supply is distributed to various sub-distribution boards or final circuits. It typically houses the main switch, circuit breakers, and busbars for distributing power throughout a building .

•

Sub Distribution Board (SDB):

• These boards receive power from the main distribution board and further distribute it to specific areas or floors within a building. They help organize and control power distribution in a more localized manner .

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Consumer Unit:

• Commonly found in residential settings, consumer units contain circuit breakers or fuses for various household circuits, providing a point of control and protection for individual circuits .

•

Meter Panel:

• These panels track electricity usage in residential and commercial settings. They are essential for billing purposes and typically include primary switches, fuses, and circuits .

•

Smart Distribution Boxes:

• Equipped with advanced features such as remote monitoring, energy management, and automation integration, these boxes represent the future of electrical distribution systems .

•

Fuse Box:

• An older type of distribution panel that uses fuses instead of circuit breakers to protect electrical circuits. While less common today, they are still found in some older installations .

Installation Methods
• Surface-mounted Distribution Boxes: Installed directly on walls, these boxes are easier to access and maintain, making them suitable for outdoor or industrial environments .

• Flush-mounted Distribution Boxes: Embedded within walls, providing a cleaner look for indoor installations, often seen in modern homes and offices .
Material Types
• Metal Distribution Boxes: Made from steel or aluminum, these are used in places that require higher safety standards, such as fire-resistant buildings .

• Plastic Distribution Boxes: Constructed from materials like PVC or polycarbonate, these boxes are lightweight and resist corrosion, making them suitable for areas with lower electrical demands .
Conclusion

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Choosing the right type of electrical distribution box depends on factors such as the application, load demand, installation environment, and safety considerations. Understanding the different types and their specific functions can help ensure efficient and safe electrical distribution in various settings.

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Distribution boards, often referred to as electrical panels or breaker boxes, serve as the nerve center of any electrical system. Here

Three Phase Distribution Board

12 Way Three Phase Distribution Board is where the electrical supply is distributed from within the building. The main supply cable

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The main power line connects to a distribution box, which then distributes the electrical power. There are different

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