EU Level 3 Distribution Box Model and Dimensions

Overview

EU Integrated Distribution Box DimensionsThis document provides specifications for various types of plastic distribution boxes, including their dimensions.

Key Takeaways

EU Level 3 distribution boxes are modular enclosures designed for 36 to 54 modules, typically made of ABS or polycarbonate, with IP30 to IP65 protection for indoor and outdoor use.

Model Types and Module Capacity

EU Level 3 distribution boxes are available in various module configurations, commonly including:

• 36 modules (3x12)

• 54 modules (3x18)

• Other configurations: 4, 6, 8, 12, 18, 24 modules for smaller applications

These boxes are designed to accommodate MCBs, RCDs, RCCBs, and other modular protection devices. They support surface-mounted or flush-mounted installation depending on the model .

Material and Construction
• Plastic versions: ABS or polycarbonate (PC), halogen-free, RAL 7035 grey, with transparent PC windows for monitoring .

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• Metal versions: High-strength cold-rolled steel (Q195), full metal construction for enhanced durability and corrosion resistance, suitable for indoor low-voltage applications .

• DIN rail compatibility: TH35x7.5 symmetrical rails for mounting modular devices, with one or multiple rows depending on module count .

Protection and Standards

• IP ratings: IP30 for indoor metal boxes, IP65 for outdoor ABS/PC boxes .

• Compliance: IEC 60439-3 and EU Low Voltage Directive 2014/35/EU .

• UV protection: For outdoor PC boxes, ISO 4892-2 standard, method A, 1000 h .

Dimensions (Typical Examples)

While exact dimensions vary by manufacturer, common EU Level 3 distribution boxes have approximate dimensions:

• 36-module box (3x12): Height ~600 mm, Width ~400 mm, Depth ~150 mm .

• 54-module box (3x18): Height ~800 mm, Width ~400–450 mm, Depth ~150–200 mm .

• Smaller boxes (12–24 modules): Height ~300–500 mm, Width ~250–400 mm, Depth ~120–150 mm .

These dimensions allow adequate wiring space, easy installation of incomer devices, and modular expansion. Boxes often include removable gland plates, adjustable nuts, and hinged doors for convenient access .

Summary

EU Level 3 distribution boxes are modular, durable, and compliant with EU and IEC standards, available in metal or plastic construction, with IP30 to IP65 protection, and module capacities from 36 to 54. They are suitable for residential, commercial, and industrial applications, providing flexibility for MCB, RCD, and RCCB installation while ensuring safety and ease of maintenance .

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Article Content

GB-distribution boxes and enclosures

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This document provides specifications for various distribution boxes including dimensions, mounting sizes, and number of ways. It

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

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