Standard Size of Large Commercial Distribution Box

Overview

These large boxes give you the flexibility to mount multiple breakers, switches, or connectors side by side.

Key Takeaways

Large commercial distribution boxes typically range from 200–415 mm in length, 172–323 mm in width, and 75–140 mm in height, with configurations supporting 4–39 ways depending on the model and application.Standard Dimensions and Series

Plastic distribution boxes for commercial use come in multiple series with varying sizes:

• MB-ABC Series: Length 200–328 mm, Width 172–174 mm, Height 95 mm; supports modular combination equipment for AC 50Hz, rated voltage 220V/380V, widely used in commercial buildings, hospitals, airports, and industrial facilities .

• HA, HK, LGD Series: Length 100–415 mm, Width 105–323 mm, Height 75–140 mm; made of flame-resistant ABS plastic, suitable for indoor and outdoor installations .

• EKDB10 Series: IP65 waterproof boxes made of durable PC plastic, available in 4–39 ways, with single, double, or triple layers; designed for industrial, commercial, and photovoltaic applications, meeting IEC standards for electrical protection .
Key Features
• Material: ABS or PC engineering plastics for flame resistance, insulation, and mechanical strength .

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• Mounting: Wall-mounted or panel-mounted options, often with modular cutouts for flexible installation .

• Compliance: Meets international standards such as IEC60529, IEC62262, and IEC60695-2-10 for safety and durability .

• Capacity: Boxes are rated by the number of ways (outlets or circuits), ranging from small 1-way units to large 36–39-way commercial boxes .
Considerations for Selection
• Number of Devices: Choose a box that accommodates current and future expansion to avoid overcrowding .

• Environment: Waterproof or IP-rated boxes are recommended for outdoor or industrial settings .

• Internal vs External Dimensions: Ensure internal dimensions provide sufficient space for wiring and connectors, while external dimensions account for wall thickness and mounting space .

• Compliance with Codes: Verify local electrical codes for minimum box volume and safety requirements . By selecting the appropriate series and size, commercial distribution boxes can provide reliable, safe, and scalable solutions for large-scale electrical installations.

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