

Outdoor Distribution Box Size Comparison Table



AI Overview

Outdoor distribution boxes vary by amperage, dimensions, and environmental ratings, with standard sizes ranging from compact 100A units to large 400A industrial panels.

Box Type	Amperage	Dimensions (HxWxD)	NEMA/IP Rating	Typical Application	Notes
Residential Main Panel	100–200A	24" x 18" x 6"	NEMA 3R / IP55	Single-family homes, small outdoor circuits	Rain-tight, surface-mounted, UL-listed
Residential / Small Commercial	200–225A	30" x 24" x 8"	NEMA 3R / IP65	Multi-family homes, small commercial buildings	Supports EV chargers, higher wire-fill capacity
Industrial Wall-Mounted	400A	36" x 30" x 10"	NEMA 4 / IP66	Factories, warehouses, outdoor machinery	High IP rating for dust and water jets, pre-wired options available
Specialty Retrofit Box	60–150A	20" x 16" x 5"	NEMA 3R / IP44	Retrofit in existing walls or sub-floors	Non-metallic, easy mounting, suitable for limited space
Compact Junction Box	30–60A	12" x 12" x 4"	NEMA 3 / IP44	Small automation setups, outdoor lighting	Space-efficient, suitable for low wire count

Key Considerations

- Amperage & Capacity:** Choose a box rated for the total load, including future expansion for EV chargers or additional circuits ().
- Environmental Rating:** Outdoor boxes must meet NEMA 3R or higher for rain-tight protection; IP55 or IP65 is recommended for exposed locations ().
- Dimensions & Depth:** Ensure sufficient internal volume for wire fill and device installation; deeper boxes reduce overcrowding and improve safety ().
- Mounting Type:** Surface-mounted boxes are standard for outdoor installations to maintain weatherproofing; retrofit boxes allow installation in existing walls without structural modifications ().
- Material:** Metal (galvanized steel or stainless) for durability, PVC/fiberglass for corrosion resistance,...

Article Content

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Struggling with distribution box selection? Our guide covers sizing, key features, safety standards (UL/CE), and best outdoor materials. Make the right choice!

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12 types of distribution boxes and how to choose them

How to Choose the Right Distribution Box: Your Step-by-Step Guide So, you've seen the options—now what? Choosing the best distribution box isn't rocket science, but it does need a bit of

Distribution box catalogue | PDF

This document provides specifications for various distribution boxes including dimensions, mounting sizes, and number of ways. It includes specifications for TOP-TS, TOP-TF, TOP-LS, TOP-PS, TOP

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Electrical Enclosure Box Sizes and Selection Tips

Explore standard electrical enclosure box sizes, learn how IP ratings and materials affect design, and calculate the right dimensions for your project.

Distribution Box

Our distribution boxes are perfect for industrial environments, catering to automation, robotics, and processing facilities. They provide cost-effective solutions through automated dispensing and

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