

Outdoor Distribution Box Dimensions Table

Article Overview

A common standard outdoor distribution box measures 400 mm high x 500 mm wide x 200 mm deep, with variations depending on application and protection requirements.

Standard Dimensions

- o Height: 400 mm
- o Width: 500 mm
- o Depth: 200 mm This size is widely used for decentralized power distribution, auxiliary circuits, or monitoring equipment in outdoor environments, providing sufficient space for internal components and wiring while maintaining a compact footprint .

Construction and Material Considerations

- o Enclosure Material: Typically cold-rolled sheet steel (2.5 mm thick) or durable plastic, designed to withstand rough usage and weather .
- o Protection Ratings: Minimum NEMA 3R or IP43 for general outdoor use; upgrade to NEMA 4X or IP66 for coastal, chemical, or high-pressure wash environments .
- o Doors and Panels: Flush-type joints with rounded edges, sealed with neoprene gaskets to prevent water ingress .

Mounting and Installation

- o Surface Mounting: Most outdoor boxes are surface-mounted to ensure weatherproofing .
- o Clearance: Minimum 300 mm above finished floor level for maintenance access .
- o Mounting Options: Wall or pole brackets are commonly provided, with secure attachment points for stability .

Internal Layout

- o Bus Bars and Breakers: Space is allocated for copper or aluminum bus bars, overcurrent protection devices, and main disconnects .
- o Cable Entry: Dedicated gland holes or knockouts for wiring, maintaining IP/NEMA integrity .
- o Bending Space: NEC 312.9 requires additional depth for conductor bending and door closure clearance, typically adding 1 inch to internal depth .

Environmental and Safety Features

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- o Rain Hoods and Gaskets: Ensure high ingress protection against rain and dust .
- o Ventilation: Louvers with screens and filters may be included to prevent overheating while maintaining protection .
- o UV and Temperature Resistance: Materials are selected to withstand sunlight, temperature variations, and high wire temperatures up to 650°C in some models . These specifications provide a reliable baseline for selecting or designing an outdoor distribution box suitable for residential, commercial, or industrial applications. Adjustments may be made based on local codes, environmental conditions, and the number of circuits or devices to be housed.

This IP54 distribution box offers the ability to terminate 8 fibers housed in a robust ABS enclosure for indoor and outdoor applications.

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Complete specification guide for outdoor electrical distribution boxes covering NEC Article 312 requirements, NEMA

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