



Typical Dimensions of Landscape Power Distribution Boxes

Article Overview

Landscape power distribution boxes are typically compact, with dimensions ranging from small enclosures around 16" H x 12" L x 5.9" W to larger prefabricated units for 200-2000 kVA substations.

Typical Sizes

- o Small residential or commercial landscape boxes: These are often designed for outdoor use with weatherproof enclosures and internal mounting panels. A common example is 16 inches high, 12 inches long, and 5.9 inches wide, suitable for low to medium power distribution needs (Amazon product example) .
- o Medium to large prefabricated landscape substations: For higher capacity applications (200 kVA to 2000 kVA), these units are delivered fully assembled and compact relative to their capacity. They integrate primary high-voltage equipment, three-phase transformers, and secondary low-voltage distribution, minimizing space while maintaining functionality .

Design Considerations

- o Weatherproofing: Outdoor boxes must meet NEMA or IP ratings (e.g., NEMA 3R or 4) to withstand rain, dust, and environmental exposure .
- o Internal layout: Includes bus bars, circuit breakers, main disconnects, and grounding systems. The compact design ensures minimal footprint while allowing safe and efficient power distribution .
- o Installation: Smaller boxes can be wall-mounted or placed on a concrete pad, while larger prefabricated units are delivered as single-lift assemblies for direct site installation .

Summary

The size of a landscape power distribution box depends on its capacity and application. Small boxes for residential or light commercial use are typically under 2 feet in height and width, while larger prefabricated substations for commercial or industrial applications are compact relative to their high power rating but significantly larger than residential units. Proper selection should consider both physical space and electrical load requirements to ensure safety and compliance with NEC and NEMA standards .

Find the right electrical enclosure size for any project. This guide covers standard sizes, selection tips, ratings, and

Groundbreaking Outdoor Power From Friday night lights to sold-out concert stadiums, power should

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Low voltage (LV) switchrooms are common across all industries and one of the more common spatial requirements

In flammable and explosive environments, explosion-proof distribution boxes should be selected and explosion-proof

Learn how to choose a distribution box and understand its internal structure, including MCBs, busbars, neutral bars,

Bring power, communications, and A/V while seamlessly blending into any landscape.

Master power distribution panels with our complete guide covering electrical distribution boards, 3 phase consumer

Distribution box 1-phase: Commonly used in residential applications, these are designed for lower power loads and

Pad-mounted transformers are connected to primary high voltage lines, and secondary lines can extend in several directions to

An outdoor electrical distribution box is essential for providing reliable power in outdoor settings. These boxes are designed to

Electrical Enclosures In industrial systems, larger electrical enclosures are used to house

What are some common applications for temporary power distribution boxes? We'll explain

Designed for use in overhead supply areas and outdoor settings, these products provide secure, reliable power distribution for

Distribution boxes are commonly used in residential and commercial electrical systems. Also known as a distribution

Box shall be rigid free standing & floor mounting type and comprise of structural frames enclosed completely with specially selected

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