# Outdoor power distribution box height standard

## Overview

Outdoor Electrical Distribution Box Specifications: NEC Article 312This specification guide provides system designers, electrical engineers, and procuremen.

## Key Takeaways

Outdoor power distribution boxes should generally be installed with the bottom at least 3 feet (approximately 1 meter) above ground, with a typical working height between 4 and 6 feet for accessibility and safety.Recommended Installation Heights
• Minimum Height: The bottom of an outdoor distribution box should be no less than 1 meter (about 3 feet) above ground to protect against water, dirt, and accidental impacts .

• Typical Working Height: For ease of access and maintenance, the centerline or bottom of the box is often installed between 4 and 6 feet (1.2 to 1.8 meters) from the ground . This allows users to operate breakers or read labels without bending or stretching excessively.

• Maximum Height: The top of the equipment, including the highest breaker handle, should not exceed 6 feet 7 inches (2 meters) to comply with NEC accessibility guidelines .
Additional Considerations
• Ground Clearance: Ground-mounted boxes should be raised 2 to 4 inches (50–100 mm) above the surface to prevent moisture damage .

• Environmental Protection: Outdoor boxes must have weatherproof enclosures (NEMA 3R or 4) to withstand rain, snow, and other environmental factors .

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• Accessibility and Safety: Ensure at least 3 feet of clearance in front of the box for safe operation and maintenance, and avoid placing the box near wet areas or locations prone to flooding .

• Special Cases: For older or disabled users, a lower installation height around 4 feet may improve accessibility .
Summary

For most outdoor installations, install the bottom of the distribution box at a minimum of 3 feet above ground, with a practical working height between 4 and 6 feet, ensuring compliance with NEC standards, protection from environmental hazards, and convenient access for maintenance and emergency use .

## Article Content

Standard Outlet & Switch Height: NEC Code Guide (Floor to Box)

For a typical residential installation, the standard electrical outlet height is 12 to 16 inches from the finished floor to the bottom of the

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

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