

What is the optimal height for a high-voltage distribution box above the ground



Article Overview

The optimal height for installing a high-voltage distribution box is typically between 1.5 meters (4.9 feet) and 1.8 meters (5.9 feet) above the ground, ensuring accessibility, safety, and compliance with standards.

Recommended Mounting Height

For most indoor and outdoor installations, the bottom edge of the distribution box should be 1.5 to 1.8 meters above the floor. This height allows easy access for operation, inspection, and maintenance without excessive bending or stretching, while keeping the box out of reach of children and away from potential water hazards . Outdoor boxes should be mounted at least 3 feet (≈ 0.9 meters) above ground to protect against water, dirt, and accidental impacts .

Compliance with Standards

According to the National Electrical Code (NEC), panelboards and high-voltage distribution boxes must be installed in readily accessible areas with a maximum mounting height of 2 meters (6 ft 7 in) from the floor, and a minimum height of 1.2 meters (4 feet) for safe operation . Adequate clearance in front of the box (at least 3 feet deep and 30 inches wide) is required to allow the door to open fully and provide safe working space

Article Content

Aug 21, 2025

What Is the Required Electrical Panel Height From Floor?

For the vertical clearance, often called headroom, the space must be clear from the floor up to a minimum height of 6

Feb 12, 2026

What is the Ideal Installation Height for a Distribution Box

The proper installation of a distribution box involves placing it at the right height to ensure safety and convenience. Mounting it 4.5 to

Mar 08, 2026

Size determination, installation method and wiring mode of distribution ...

The distribution box is the central hub of the home circuit and the general control of our daily power consumption. It is an

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How High Should The Exterior Cable Box Be Installed?

For the installation of an outdoor electrical box, it should be fitted onto the outside wall and positioned 500mm to

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Installation points of household distribution box

The distribution box of household distribution box should not be installed too high. Generally, the installation elevation is 1.8m to

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At What Height Above The Ground Should A Waterproof Distribution

The bottom of a waterproof distribution box must be installed at least 0.3 meters (12 inches) above the ground, though

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Design Guide For Overhead Distribution Systems | EEP

In this way the necessary distribution line voltage level can be determined, along with the resultant cost of

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Is There A Minimum Height For Exterior Electrical Panels?

If power lines are placed above the ground in your area, the best way to locate an exterior electrical box is to look for the main

May 16, 2026

The height requirement of distribution box

The distribution box shall be installed horizontally and vertically. After the box is placed, the perpendicularity of the

May 01, 2026

Nec Circuit Breaker Box Height Requirements

Mounting Height A height limit applies to mounting a panel box. The circuit breaker at the top of the box may not be

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Electrical Panel Mounting Height Requirements: General ...

The work space shall be clear and extend from the grade, floor or platform to a height of 6 1 / 2 feet or the height of the equipment,

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CHAPTER 7 DESIGN FOR DISTRIBUTION FACILITIES

Necessary height of the feeder conductors above the ground can be secured under the largest sag. Necessary clearance between

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Electrical Panel Mounting Height Requirements: General ...

Electrical panel height from floor The dimension for height of working space for equipment operating at 600 volts (V), nominal, or less

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Undergrounding high voltage electricity transmission lines

Introduction The purpose of this document is to provide information about the technical merits and challenges associated with

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What Is the Standard Height for an Electrical Panel?

While the NEC establishes a maximum height, it generally does not mandate a minimum height for the electrical panel

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IEEE_CED SubDesign

Substation - A set of equipment reducing the high voltage of electrical power transmission to that suitable for supply to

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Height of Breaker Box

That specific guideline states that you should leave 6 and a half feet of working space or the equivalent height of all

May 18, 2026

2013 48 Autumn Wiring Matters

Floor box outlets are an exception to the Building Regulations height requirements and are a standard fitting in open-plan offices

Jun 07, 2026

What is the Minimum Ground Clearance for Overhead Power Line?

Minimum Ground Clearance Standard of Sag Due to safety reasons, an adequate distance is always maintained between the

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Distribution boards components

Distribution boards (generally only one in residential premises) usually include the meter (s) and in some cases

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Outdoor boxes & LB's above ground

Is there a rule-of-thumb ---or Code requirement for the distance (inches) above ground for mounting outdoor electrical

Apr 14, 2026

Minimum Electrical Clearance Standards | PDF | High Voltage

This document provides information on minimum electrical clearances for various voltage levels according to different standards and

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220V Outside disconnect box, height above ground level requirements?

So it sounds like the code would allow it to be mounted 1 inch above ground level, tho that would be stupid of course.

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The installation requirements for the distribution box

Choose the right box based on environment (indoor/outdoor), load capacity, and durability. Check for proper IP/NEMA

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Junction Box mounting height | Information by Electrical Professionals ...

Hi all. Quick question. Is there a minimum mounting height for installing a junction box? To my knowledge, there isn't

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NEC Requirements for Panelboards and Load Centers

A panelboard with a height of 5 feet, 6 inches is mounted 18 inches above the floor. This brings the total height of the top of the

Jun 12, 2026

Electrical Box Heights | Information by Electrical Professionals for ...

Are these the proper heights for electrical boxes? If someone is wiring a new house from scratch, would these be the

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What Is High Voltage Power Distribution

Experience efficient and reliable high-voltage power distribution solutions. Trust Swartz Engineering's expertise for

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Outdoor Outlet Height

Electrical - AC & DC - Outdoor Outlet Height - I am installing an outdoor outlet that I plan on attaching to a 4x4 post

Contact Us

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