

What is a secondary distribution box in a home



Article Overview

A secondary distribution box, or subpanel, safely extends your home's electrical system by dividing power from the main panel into additional circuits closer to the load.

What is a Secondary Distribution Box?

A secondary distribution box, commonly called a subpanel, is an electrical panel installed downstream from your main service panel. It takes a single large feed from the main panel and distributes it into multiple smaller circuits, providing localized control and protection for specific areas or high-demand appliances in your home. This setup is particularly useful when the main panel is full or when new circuits are needed far from the main panel.

When to Use a Subpanel

Typical scenarios for installing a subpanel include:

- Adding circuits for a finished basement or attic
 - Installing an electric vehicle charging station
 - Powering a workshop or garage with heavy machinery
 - Expanding capacity for high-demand appliances like air conditioners or water heaters
- Using a subpanel reduces the need for long runs of individual branch circuits back to the main panel, improving efficiency and safety.

Key Components and Features

Article Content

Complete Guide For Distribution Boxes Types

Distribution boxes, also known as electrical distribution boards or panels, are pivotal components in electrical systems, ensuring the

How to Choose a House Distribution Box | CHINT global

A well-chosen distribution box ensures the safety and efficiency of your household electrical system. This article guides

The Meaning and Function of Primary, Secondary, and Tertiary ...

The terms primary, secondary, and tertiary distribution boxes are relative. Let's make an example for clarity: A newly constructed

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Operations in a compact transformer substation for secondary distribution Perhaps you've heard of the secondary distribution in the

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