

# Household high-voltage distribution box with 22 circuits



## Article Overview

A 22-circuit household distribution box efficiently manages multiple circuits, providing organized power distribution and essential safety features for residential electrical systems.

### Overview

A 22-circuit distribution box (also called a loadcenter or breaker box) is designed to handle residential electrical loads safely and efficiently. It typically supports 120/240V systems and can accommodate a mix of lighting, room socket, and high-power appliance circuits, making it suitable for medium to large homes ( ).

### Key Features

- **Circuit Capacity:** 22 circuits allow for dedicated lines for each room, lighting, and high-power appliances like air conditioners, water heaters, or electric stoves ( ).
- **Main Switch:** Controls the entire electrical system, enabling quick shutdown for maintenance or emergencies ( ).
- **Overload and Short-Circuit Protection:** Built-in circuit breakers prevent overheating and electrical fires by interrupting excessive current flow ( ).
- **Bus System:** High-quality copper bus bars accommodate wire sizes from #10 to #1/0 AWG, ensuring reliable connections and flexibility during installation ( ).
- **Convertible Design:** Some models, like the CH22N125C, offer convertible configurations for versatile installation in new construction or upgrades ( )....

## Article Content

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From traditional main circuit breaker panels to innovative smart distribution boxes, the evolution of this essential

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## What Is A Distribution Board and How Does It Work? | TOSUNlux

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3) Common Mistakes to Avoid Selecting a house distribution box power may sound like an easy task, but simple

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