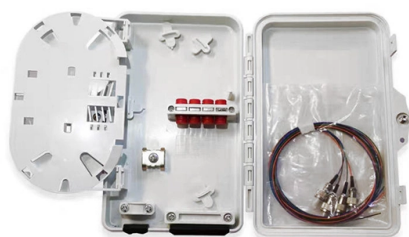


Prices of various types of distribution box enclosures



Overview

What Is a Distribution Box?

Types, Components & How A distribution box, also called an electrical distribution box, distributes incoming power to Distribut.

Key Takeaways

Distribution box enclosures range from \$50 for basic residential units to over \$1,000 for industrial or smart modular systems. Residential Distribution Boxes

Standard residential enclosures, typically single-phase or small three-phase units, are priced between \$50 and \$300 depending on the number of circuits, amperage, and material construction (plastic, steel, or powder-coated metal) . Basic indoor units are the most affordable, while weatherproof outdoor versions or units with surge protection and smart monitoring features cost more .

Commercial Distribution Boxes

Commercial enclosures, designed for office buildings or small industrial setups, generally range from \$300 to \$800. These units often include modular designs, higher amperage capacity, and enhanced safety features such as arc fault detection, ground fault protection, and energy monitoring . Modular systems allow for future expansion, which can increase the initial cost but reduce long-term upgrade expenses .

Industrial and Heavy-Duty Enclosures

Industrial-grade distribution boxes, suitable for manufacturing facilities, data centers, or hazardous environments, can cost \$800 to \$1,500 or more. These enclosures are built with high-grade stainless steel or polycarbonate, offer IP66/IP67 waterproof ratings, and are designed to withstand extreme conditions, including chemical exposure, vibration, and high temperatures. Some advanced industrial units include smart monitoring, remote control, and integration with building management systems, which further increases the price.

Factors Affecting Price

- **Material:** Plastic and powder-coated steel are cheaper; stainless steel and polycarbonate are premium.
- **Capacity:** More circuits and higher amperage increase cost.
- **Features:** Smart monitoring, surge protection, and modularity add to the price.
- **Installation Environment:** Outdoor or weatherproof units are more expensive than indoor-rated boxes.
- **Customization:** Special mounting, labeling, or integration with energy management systems can significantly affect cost.

Summary

- **Basic residential:** \$50–\$300
- **Commercial/modular:** \$300–\$800
- **Industrial/heavy-duty:** \$800–\$1,500+ Choosing the right distribution box depends on application, safety requirements, and future expansion needs, with higher upfront costs often offset by durability, energy efficiency, and reduced maintenance.

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