Distribution Box Configuration and Price Chart



Overview

There is a significant price difference between distribution boxes of different types, specifications, and brands. So, how to estimate the price of the distribution box?

Key Takeaways

Distribution boxes vary by type, material, circuit capacity, and features, with prices ranging from $30 for basic residential units to over $1,000 for advanced commercial or industrial systems.

Overview of Distribution Boxes

A distribution box (DB box) is a central hub that distributes electrical power from a single input source to multiple circuits safely and efficiently. It houses key components such as circuit breakers, fuses, bus bars, and protective devices to prevent overloads, short circuits, and electrical faults.

Modern D

B boxes may include smart monitoring units, energy meters, and communication modules for real-time data and remote control.

Common Configurations

Distribution boxes are categorized based on phase type, amperage, number of circuits, and installation type: Residential Single-Phase DBs: Typically 32A–63A, 4–12 circuits, suitable for homes and small apartments.

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Residential Three-

Phase D

Bs: 63A–125A, 6–18 circuits, for larger homes or small commercial setups.

Commercial/

Industrial D

Bs: 125A–400A+, 12–36 circuits, often modular with advanced surge protection, arc fault detection, and smart energy management.

Outdoor/

Weatherproof Units: IP65–IP69K rated, made from thermoplastics or powder-coated stainless steel for durability in harsh environments.

Material and Safety Features

Materials: Sheet steel, stainless steel, aluminum, ABS, or polycarbonate. Metal boxes offer strength and corrosion resistance; plastics are lightweight and cost-effective. Safety Features: Residual current devices (RCDs), surge protection, proper earthing, and compartmentalized designs for organized wiring.

Pricing Guide

Prices vary depending on capacity, material, IP rating, and smart features: TypeAmperageCircuitsMaterialIP RatingApprox. Price (USD)Basic Residential32A4PlasticIP20$30–$50Standard Residential63A8MetalIP30$60–$120Advanced Residential63A12Metal/PlasticIP44$150–$250Small Commercial125A12MetalIP54$300–$500Large Commercial/Industrial250A–400A24–36Stainless SteelIP65–IP69K$700–$1,200+Smart/Modular DB63A–250A8–24Metal/PlasticIP54–IP65$400–$1,000+ Additional ConsiderationsInstallation Costs: Can add 20–50% to the purchase price depending on complexity. Customization: Modular designs allow future expansion for solar panels, EV chargers, or additional circuits.

Energy Efficiency: Smart DBs with monitoring and load management may have higher upfront costs but reduce long-term energy expenses. Compliance: Ensure units meet local electrical codes and certifications (IEC, UL, or equivalent),. This guide provides a practical framework for selecting a distribution box based on application, safety, and budget, helping contractors, facility managers, and homeowners make informed decisions.

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Article Content

Distribution Box Price and Configuration Table

There is a significant price difference between distribution boxes of different types, specifications, and brands. So, how to estimate the price of the distribution box?

Types and prices of distribution boxes in 2025_COLORIA GROUP

From basic metal boxes to AI-powered energy hubs, distribution systems are becoming the unseen foundation of smart buildings. Prices might seem steep for advanced units, but they pay

Distribution Box Cost Guide: Value & Features

Explore distribution box cost factors, safety features, and budget solutions. Learn how to select the right panel for your needs and budget.

Distribution Box and Selection Guide: Internal Structure, Components ...

Learn how to choose a distribution box and understand its internal structure, including MCBs, busbars, neutral bars, earth bars, RCDs, RCBOs, SPDs, enclosure ratings, and wiring layout.

Distribution Box Guide: Types, Components & Solutions

Understand distribution boxes (DB boxes) in 5 minutes. Learn about types, components, functions, and uses. Find the perfect DB box for your needs.

Distribution Board Configurator

With this configurator, electricians can have the complete parts list, the assembly and wiring diagram and the corresponding nameplate for their project created.

Distribution Boards & Consumer Units

The wide range of distribution boards enables each customer to select an individual and economical configuration according to his requirements and satisfaction.

Distribution box catalogue | PDF

This document provides specifications for various distribution boxes including dimensions, mounting sizes, and number of ways. It includes specifications for TOP-TS, TOP-TF, TOP-LS, TOP-PS, TOP

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ABB Consumer Units & Distribution Boards

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How to Choose a House Distribution Box | CHINT global

This article guides you through selecting a distribution box that is both affordable and safe, emphasizing key features, configuration, and practical considerations. Safety Considerations Safety

Explore Distribution Boxes for Every Setting with Different Types ...

Distribution boxes act as the central hub, receiving the main electrical supply and dividing it into designated circuits for lighting, outlets, and appliances. They provide a safe and organized way

What Is a Distribution Box?

You should choose a distribution box that''s made of a durable material, for instance. Synthetic rubber is an excellent choice. When made of synthetic rubber, distribution boxes can

The Ultimate Guide to Distribution Box Types

Discover the key types of distribution boxes with NUOMAK''s comprehensive guide. Learn about Main Distribution Boards (MDB), Consumer Units, Transfer

Distribution Box

Distribution Box Space and cost saving solution Amphenol LTW''s distribution boxes facilitate efficient cable management, easy installation with pre-wired configuration, and provides a centralized

Understanding Distribution Boxes: A Comprehensive

A distribution box, also known as a power distribution box or electrical distribution box, is used to distribute electrical power safely to multiple

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