

Detailed Cost Breakdown of Empty Distribution Boxes

Article Overview

Empty distribution boxes typically range from \$10 to \$200 or more, depending on size, material, and features.

Price Range and Factors

The cost of empty distribution boxes varies widely based on several factors:

- o **Material:** Plastic (ABS or polycarbonate) boxes are generally more affordable, lightweight, and corrosion-resistant, suitable for indoor use, while metal boxes are more expensive but offer better mechanical protection and heat dissipation .
- o **Size and Capacity:** Small boxes for a few modules may cost around \$10-\$30, medium-sized boxes for multiple circuit breakers or earth leakage switches range from \$30-\$80, and large enclosures for complete switchboards or industrial applications can exceed \$100-\$200 .
- o **Type and Mounting:** Surface-mounted boxes are usually less expensive than flush-mounted boxes, which require wall embedding and a cleaner aesthetic .
- o **Environmental Rating:** Outdoor or IP65/IP66-rated boxes designed to resist dust, water, and harsh conditions carry a premium price compared to indoor-rated units .
- o **Additional Features:** Ventilation slots, transparent doors, secure locking systems, and compatibility with DIN rails or modular components can increase the cost .

Typical Applications

- o **Residential:** Managing home circuit connections, usually smaller plastic or metal boxes.
- o **Commercial:** Offices and commercial buildings often require medium-sized boxes with higher durability.
- o **Industrial:** Factories and plants use large, robust boxes with high voltage capacity and advanced safety features .

Summary

For a basic indoor residential distribution box, expect to pay \$10-\$50, while larger, outdoor, or industrial-grade boxes can cost \$100-\$200 or more. Prices also depend on customization, certifications (CE, RoHS, TUV), and additional features like IP ratings or modular compatibility . Choosing the right box involves balancing size, material, installation type, and environmental protection to meet your specific electrical distribution needs.



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