

Cost of Custom Waterproof Distribution Boxes

Article Overview

The price of a custom-made waterproof distribution box varies widely depending on size, material, IP/NEMA rating, and customization, typically ranging from \$50 to several hundred dollars per unit, with bulk orders reducing per-unit cost.

Factors Affecting Price

- **Material:** Boxes can be made from metal (stainless steel, aluminum), PC/ABS plastic, or polycarbonate, with metal enclosures generally costing more due to durability and corrosion resistance .
- **Waterproof Rating:** Higher IP ratings (IP65–IP68) or NEMA standards (3S, 4X, 6P) increase cost because of enhanced sealing, gaskets, and construction quality .
- **Size and Configuration:** Larger boxes or those with DIN rail setups, multiple terminals, or modular compartments require more material and labor, raising the price .
- **Customization:** Features like OEM branding, knockouts, busbar fitment, UV stabilization, or pre-assembled kits add to the cost .
- **Certifications:** CE, UL, TUV, RoHS, and other certifications may increase manufacturing costs but ensure compliance and reliability .
- **Order Volume:** Wholesale or bulk orders reduce per-unit cost, while single custom units are more expensive .

Typical Price Range

- **Small plastic IP65 boxes:** Approximately \$50–\$100 per unit...

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