

Factory Power Distribution Box Dimensions

Article Overview

Factory power distribution boxes vary in size and specifications depending on capacity, mounting type, and protection requirements, with modular designs allowing customization for industrial applications.

General Construction and Materials

Factory power distribution boxes are typically made from cold-rolled or stainless steel sheets with thicknesses ranging from 1.5 mm to 3 mm, providing mechanical rigidity and durability . Doors are often banded and welded, with concealed hinges and dual-door designs to separate live and non-live parts, enhancing safety . Some enclosures are die-cast for chemical corrosion resistance and higher protection ratings above IP54 . Rubber gaskets and sealing ensure dust and water ingress protection, with IP33 or higher ratings depending on the model .

Dimensions and Mounting

Dimensions vary widely based on the box type and power rating. For example, low-voltage modular cabinets like ABB MNS can be wall-mounted or floor-mounted, with removable flanges for top or bottom cable entry . Industrial KVA-rated boxes (63–315 KVA) have busbar sizes ranging from 72×50×8 mm for 63/100 KVA to 120×50×15 mm for 160/315 KVA, with feeder droppers sized accordingly . Large electrical boxes may be single-gang, double-gang, or multi-gang, depending on the number of devices and future expansion needs . Customizable boxes allow bespoke dimension...

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