

Standard Size of Aluminum Alloy Distribution Box



Overview

Aluminium alloy die-casting forming, high temperature resistant, Corrosion-Proof, can be used in harsh environments.

Key Takeaways

Aluminum alloy distribution boxes typically range from 45 x 50 x 30 mm to 600 x 600 x 200 mm, with over 40 standard sizes available for industrial applications. Common Standard Sizes

Aluminum distribution boxes, also known as terminal or junction boxes, are manufactured in a wide range of standard sizes to accommodate different electrical and electromechanical components. Typical dimensions include:

- Small Boxes: 45 x 50 x 30 mm to 100 x 100 x 50 mm, suitable for compact installations and light-duty applications .
- Medium Boxes: 120 x 120 x 60 mm to 300 x 200 x 100 mm, commonly used for standard industrial control panels and terminal installations .

- Large Boxes: 400 x 300 x 150 mm up to 600 x 600 x 200 mm, designed for heavy-duty or high-density component setups . Some manufacturers provide over 70 different sizes to meet specific requirements, including variations in cover height and wall thickness .

Material and Protection

- Made from aluminum alloys such as 6061, 6063, or ENAC/GdAlSi12, offering corrosion resistance, high strength-to-weight ratio, and durability .
- Standard protection ratings include IP65, IP66, and IP68, ensuring resistance to dust, water, and harsh industrial environments .
- Wall thickness and mounting provisions are designed to support cable glands, DIN rails, and internal components without compromising ingress protection .

Additional Features

- Screwable covers with captive screws for secure closure.
- Optional EMC shielding or seawater-resistant coatings for specialized applications .
- Compatibility with standardized accessories such as mounting plates, hinges, and grounding screws . These standard sizes allow for quick selection, reduced lead times, and compatibility with off-the-shelf components, making them suitable for a wide range of industrial, automation, and electrical distribution applications .

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