

Customized Solution for Aluminum Plate Cover of Distribution Box

Article Overview

Custom aluminum plate covers for distribution boxes can be designed to meet specific size, protection, and functional requirements, including IP/NEMA ratings, hinged or detachable lids, and grounding capabilities.

Customization Options

Material and Finish: Aluminum is lightweight, corrosion-resistant, and durable, making it ideal for distribution boxes. Options include various aluminum alloys, with internal surfaces left unfinished for conductivity and grounding if needed. External finishes can be anodized or powder-coated for additional protection and aesthetics. **Design Features:**

- o Detachable or hinged covers for easy maintenance and assembly.
 - o Gaskets and foamed seals to enhance IP protection against dust and water ingress.
 - o Custom cutouts for cable entry, louvers, windows, or locks.
 - o Self-clinching studs or inserts for mounting internal components.
- Protection Ratings:** Aluminum enclosures can be fabricated to meet IP65, NEMA, or outdoor-rated standards, ensuring suitability for industrial, commercial, or marine environments. Waterproof and dust-tight designs are available for sensitive electrical components.

Fabrication and Production

Prototyping to Mass Production: Suppliers can handle both single-piece prototypes and large-scale production, offering services from 3D design, CAD/STEP file integration, to polishing and finishing. **Customization Process:**

- o Submit technical drawings or design requirements (PDF, DWG, STEP).
 - o Engineering review and detailed quotation with lead time.
 - o Manufacturing with strict quality control.
 - o Secure packaging and delivery.
- Additional Features:** Hinged lids, latches, and optional internal foam inserts can be added for ease of access, component protection, and transport safety.

Recommended Suppliers

- o ALU-LOGIC: Offers custom-sized aluminum cases with foamed lid seals for enhanced IP protection.
- o KDMfab: Provides full-service custom aluminum box fabrication, including IP/NEMA-rated enclosures and specialized features.
- o Takachi Electronics: Offers custom sheet metal boxes with detachable covers suitable for junction boxes and distribution boxes.



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o EWJ: OEM metal enclosure manufacturer supporting full customization from prototype to mass production with CE, ISO9001, and RoHS compliance . By selecting a supplier with custom design capabilities and IP-rated options, you can ensure your aluminum plate cover for a distribution box meets both functional and environmental requirements while allowing easy maintenance and long-term durability.

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