Mounting bracket for outdoor distribution box



Overview

We offer a variety of styles, sizes, and materials to choose from to best fit your mounting enclosure needs.

Key Takeaways

Outdoor mounting brackets secure distribution boxes to walls or poles, providing stability, weather resistance, and proper positioning for electrical installations.

Types of Mounting Brackets

Wall Mounting Brackets: These brackets attach distribution boxes directly to vertical surfaces such as building walls. They typically include pre-drilled holes for screws or bolts and may feature adjustable plates to accommodate different box sizes. Wall-mounted boxes are often installed under eaves or sheltered areas to reduce direct exposure to rain and sunlight.

Pole Mounting Brackets: Designed for utility poles or posts, these brackets use adjustable stainless-steel bands or mounting belts to secure the enclosure. They can accommodate poles ranging from 2" to 12" in diameter and are suitable for both vertical and horizontal mounting. Pole brackets often include sealing washers to maintain IPX7 or higher protection against water ingress.

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Material and Durability

Outdoor brackets are made from corrosion-resistant materials such as galvanized steel, stainless steel, or weather-resistant plastics like ASA. These materials ensure long-term durability against UV exposure, rain, and temperature fluctuations. High-quality brackets maintain the integrity of the enclosure's environmental protection, preventing dust and water intrusion.

Installation Considerations

Hole Milling or Pre-Drilled Holes: Brackets may require drilling for secure attachment to walls or poles. Sealing and Gaskets: Proper use of gaskets and sealing washers ensures the enclosure maintains its IP or NEMA rating, protecting internal components from moisture and dust. Hardware: All necessary bolts, screws, and bands are typically included in pole mount kits, ensuring compatibility and ease of installation.

Orientation: Brackets allow for vertical or horizontal mounting depending on site requirements and box design.

Compatibility and Standards

Outdoor mounting brackets are designed to fit specific distribution box sizes, such as 400 x 500 x 200 mm, and may include standardized backplates or DIN rail systems for internal component mounting. Many products comply with safety and electrical standards, including IP ratings for ingress protection and BS standards for outdoor electrical equipment.

Summary

Outdoor mounting brackets are essential for secure, weather-resistant installation of distribution boxes. Choosing the right bracket involves considering the mounting surface (wall or pole), material durability, environmental protection, and compatibility with the enclosure. Proper installation ensures safety, longevity, and reliable operation of outdoor electrical systems.

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