

Waterproofing of distribution box interfaces



Article Overview

Effective waterproofing of distribution box interfaces relies on high-quality gaskets, precise sealing strips, and proper structural design to achieve IP65–IP66 protection against water and dust ingress.

Key Waterproofing Components

Sealing Gaskets: High-grade polyurethane or EPDM foam gaskets are commonly used to create a continuous barrier around the lid and door edges. These gaskets are precision-injected or automatically dispensed to eliminate gaps and maintain uniform compression, preventing water from entering under pressure or during repeated openings . **Sealing Strips:** EPDM foam strips provide excellent aging resistance and UV stability, compensating for minor surface irregularities at the enclosure edges. Automatic dispensing ensures seamless rings, reducing the risk of moisture penetration . **Door and Flange Design:** Flanged door edges and electrostatic powder-coated surfaces guide water away from seams. Water drainage channels and gravity-assisted flow reduce direct pressure on seals, enhancing long-term waterproof performance .

Interface and Cable Entry Protection

Knockout Holes and Cable Glands: Pre-molded knockout holes at the bottom or sides of the box allow secure cable entry. Rubber sealing washers or IP-rated cable glands maintain the waterproof barrier while accommodating different cable diameters . In...

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