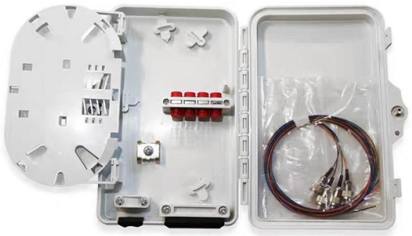
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Cost Standards for Dustproof Electrical Distribution Boxes in Cambodia



Overview

Electrical Boxes – LIUMENG Authorized Sales Distributor of MEP AHE3 – Circular Surface Box 3 ways for non-threaded conduits 0.10$0.01$ AHE4 – Circular Surf.

Key Takeaways

Dustproof electrical distribution boxes in Cambodia must comply with national technical standards (GREPTS) and IEC/ISO guidelines, with costs influenced by voltage rating, enclosure type, and project-specific requirements.Technical Standards

In Cambodia, all electrical distribution facilities, including dustproof distribution boxes, must adhere to the General Requirements of Electric Power Technical Standards (GREPTS) issued by the Ministry of Industry, Mines, and Energy (MIME) . Key points include:

• Voltage Classification: Low-voltage (≤600V) and medium-voltage (600V–35kV) distribution boxes must meet the specified insulation and protection requirements .

• Dustproof and Waterproof Ratings: Distribution boxes are typically required to meet IP (Ingress Protection) ratings for dust and water resistance, often IP54 or higher for outdoor installations .

• Material and Construction: Boxes must be made of durable materials such as galvanized steel or powder-coated metal, with reinforced structures to withstand environmental stress, including tropical humidity and monsoon conditions .

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• Compliance with International Standards: If GREPTS does not specify a requirement, IEC standards are applied, followed by ISO or other internationally recognized standards upon MIME approval .

• Installation Requirements: Boxes must be installed in accordance with EDC technical data sheets (e.g., EDC-DTS-LV003 for LV distribution boards), ensuring proper grounding, cable entry, and protection against ingress of dust and moisture .
Factors Affecting Cost

While Cambodia does not publish fixed cost standards for distribution boxes, the price is influenced by several factors:

• Voltage Rating: Medium-voltage boxes (up to 35kV) are more expensive than low-voltage boxes due to insulation and safety requirements.

• Ingress Protection Level: Higher IP ratings (e.g., IP65) increase material and manufacturing costs.

• Material Quality: Galvanized steel, stainless steel, or powder-coated enclosures affect durability and cost.

• Project Scale and EPC Requirements: Large-scale substation projects in Phnom Penh or SEZs may require custom-engineered boxes, increasing cost .

• Certification and Compliance: Boxes must meet GREPTS, IEC, and ISO standards, which may require testing and certification, adding to the overall cost .
Practical Guidance
• For procurement, consult the EDC technical data sheets (EDC-DTS-LV003 for LV boards) to ensure compliance with dustproof and electrical standards .

• For budgeting, consider that costs vary by manufacturer, IP rating, and project location, and international suppliers may charge premiums for IEC-compliant enclosures.

• For regulatory compliance, all installations must be approved by the Electricity Authority of Cambodia (EAC) and follow GREPTS guidelines . In summary, while Cambodia does not provide fixed cost standards for dustproof electrical distribution boxes, compliance with GREPTS, IEC, and ISO standards is mandatory, and costs are determined by voltage class, IP rating, material, and project-specific requirements.

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