

Specifications and Models of Explosion-proof Distribution Boxes in Lebanon



Overview

Distribution boards and switchboards, explosion proof Companies in. Activities: Manufacturers of electrical panel boards & electric distribution boards.

Key Takeaways

Explosion-proof distribution boxes in Lebanon are available in various models and materials, including stainless steel and flame-retardant plastics, designed for hazardous environments with ATEX and IP-rated protection.

- **Materials:** Commonly used materials include 304 and 316L stainless steel, Q235 steel, and flame-retardant plastics for lightweight and corrosion-resistant options .
- **Protection Standards:** Boxes are designed to meet Ex d (flameproof) and Ex tb (dust-proof) standards, suitable for gas and combustible dust environments. Typical ratings include Ex db IIC T6...T4 and Ex tb IIIC T80°C...T130°C .
- **IP Ratings:** Many enclosures offer IP65/IP66 protection, ensuring water and dust resistance for outdoor or industrial installations .
- **Construction Features:** Specialized hinge structures prevent damage to flameproof joints, enhancing durability. Boxes can be combined or installed modularly to save space .

Common Models

- **Low-Voltage Switchgear Cabinets:** GCK, GCS, MNS (withdrawable), GGD, GDH, PGL (fixed)

- Distribution Boxes: XZW (comprehensive), ZBW (box-type substation), XL, GXL (low-voltage distribution and construction site boxes)
- Terminal and Metering Boxes: PZ20, PZ30 (terminal lighting), PZ40, XDD(R) (electric metering)
- Surface-Mounted and Concealed Boxes: PXT(R)K-X/X-X/X-X/X-IPX series, with options for single-phase, three-phase, or mixed input, and rated currents customizable per customer requirements .

Installation Types

- Vertical or Hanging: Suitable for wall or pole mounting
- Concealed or Exposed: Options for flush or surface installation depending on site requirements
- Modular Assembly: Multiple boxes can be combined to create larger distribution systems .

Applications

Explosion-proof distribution boxes are widely used in chemical plants, petrochemical facilities, offshore platforms, refineries, and other hazardous environments where gas or combustible dust may be present . They are suitable for power distribution, monitoring, control, and lighting systems in industrial and commercial settings.

Additional Considerations

- Voltage Levels: Typically available in 220V and 380V configurations
- Customization: Many manufacturers offer special requirements on request, including specific protection levels, materials, or internal configurations .
- Durability: Stainless steel and flame-retardant plastics ensure long service life even in corrosive or high-temperature environments . These specifications and models provide a comprehensive overview for selecting explosion-proof distribution boxes in Lebanon, ensuring compliance with safety standards and suitability for hazardous industrial applications.

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

