

Explosion-proof temporary power distribution box for construction sites



Article Overview

Explosion-proof distribution boxes provide safe, portable power in hazardous construction environments, meeting ATEX and IP standards for gas and dust zones.

Key Features

Explosion-proof distribution boxes are designed to safely distribute electricity in environments with potentially explosive gases, vapors, or dust. They are typically ATEX-certified for Zones 1 & 2 (gas) and Zones 21 & 22 (dust), ensuring compliance with European safety standards . These boxes are built with robust enclosures made from materials like 316 stainless steel or glass-reinforced polyester (GRP) to resist corrosion, mechanical impact, and harsh outdoor conditions .

Safety and Protection

- **Mechanical Protection:** High-strength frameworks prevent external impacts from damaging internal components .
- **Ingress Protection:** IP66-rated enclosures protect against dust and water, even with plugs inserted .
- **Circuit Safety:** Individual MCBs or RCDs for each outgoing circuit prevent overloads and ground faults .
- **Emergency Control:** Integrated emergency stop buttons allow rapid shutdown in case of hazards

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For more information, pricing, or custom solutions, please contact us:

Website: <https://khanimamboguesthouse.co.za>

Email: sales@khanimamboguesthouse.co.za

Phone: +27 64 852 1973

Address: Unit 7, Greenway Business Park, 8 Innovation Drive, Centurion, 0157, South Africa

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