

Explosion-Proof Power Transformer

This explosion-proof transformer provides a safe and reliable power supply for hazardous environments, including underground mining. The specialized enclosure and heavy-duty core prevent ignition of flammable gases or dust.



Product Overview

Mining Explosion-Proof Movable Substation

The KBSGZY series movable substation is engineered specifically for underground coal mines containing explosive methane and coal dust mixtures. It provides a reliable power supply for driven machines and power devices within three-phase systems. Featuring a robust, explosion-proof design, this unit ensures safety through advanced short-circuit, overload, and leakage protection, while offering critical interlocking functions for high and low voltage switches.

Technical Specifications

Rated Capacity	6300 kVA
Rated Frequency	50 Hz
Primary Voltage	6kV, 10kV

Safety Features

Protection Mechanisms

- Short circuit protection
- Overload protection
- Electric leakage protection
- Overvoltage protection
- Low-voltage protection
- Over-temperature alarm

Interlocking Capabilities

- Electric interlocking between high and low voltage switches
- Interlocking between high voltage switch and higher-level power distribution unit
- Open electric interlocking for high voltage switch

Operational Environment

Intended Environment

Underground Coal Mines • Explosive Gas Atmospheres • Methane Environments • Coal Dust Environments

Design & Construction

Mobility	Yes
----------	-----