

Mining Flameproof Transformer

Logo & Packaging Customization

Parameter & Drawing Design Customization



OPTIMIZED
PERFORMANCE



HIGH
EFFICIENCY



SUPERIOR
SAFETY



ECO
FRIENDLY



MAINTENANCE
FREE



Overview

Flameproof & Integrated Design: The transformer core and the explosion-proof enclosure are integrated into a high-strength corrugated steel structure. It is engineered to withstand internal explosion pressure without deformation, effectively preventing the ignition of external methane or coal dust in hazardous underground environments.

High Insulation & Fully Sealed (Class H): It adopts a dry-type structure using premium Class H insulation materials, eliminating the risk of oil leakage and fire. The fully sealed casing protects internal components from extreme humidity, coal dust, and corrosive gases, ensuring a long service life and high operational reliability in harsh mining conditions.

Mobile & Versatile Application: Featuring a compact footprint and a heavy-duty skid-mounted base, it is optimized for easy transport through narrow mine tunnels. By allowing the power source to be placed closer to the load center, it significantly reduces voltage drops and energy loss, resulting in lower installation and maintenance costs.

Application



PRODUCTION

Powering heavy machinery like longwall shearers in high-risk zones.

INFRASTRUCTURE

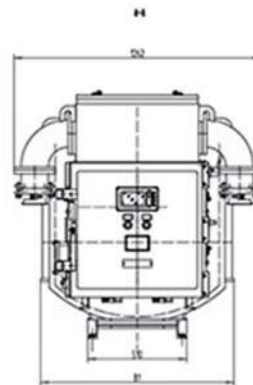
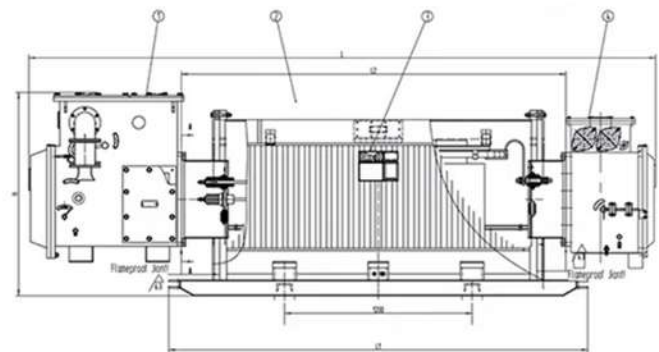
Reliable supply for dewatering pumps, ventilation, and conveyors.



INFRASTRUCTURE

Skid-mounted solutions that move with advancing operations.

Outline Drawing



Transformer Model

K B S G 2 - T - □ / □

Rated voltage (KV)
Rated capacity (KVA)
Barrel Shell
Design Number
Dry-Type
Three phase
Explosion proof
Mine transformer

Accessories / Components



HV Bushing



LV Bushing



Sealing
GasketSet



Temperature
Controller



Observation
Window

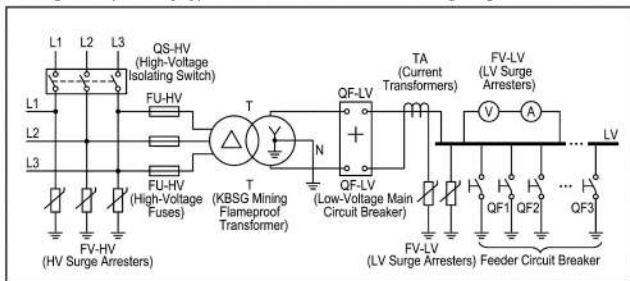
Technical Parameters

Basic performance parameter of KBSG series miningflameproof dry-type transformer

型号 (Model)	额定容量 (kVA)	电压组合 (kV)	联结组号	空载损耗 (W)	负载损耗 (W)	空载电流 (%)	短路阻抗 (%)	外形尺寸 L×W×H (mm)
KBSG-100/10	100	10(6)/0.4	Yd11	420	2150	2.4	4	1850×850×1150
KBSG-200/10	200	10(6)/0.4	Yd11	660	3650	2.2	4	2050×950×1250
KBSG-315/10	315	10(6)/0.69	Yd11	880	4900	2	4	2200×1050×1350
KBSG-500/10	500	10(6)/1.14	Yd11	1240	6900	1.8	4.5	2450×1150×1450
KBSG-630/10	630	10(6)/1.14	Yd11	1450	8200	1.6	4.5	2600×1200×1550
KBSG-800/10	800	10(6)/1.14	Yd11	1750	9800	1.4	5	2800×1300×1650
KBSG-1000/10	1000	10(6)/3.3	Yd11	2100	11500	1.2	5	3000×1400×1750
KBSG-1250/10	1250	10(6)/3.3	Yd11	2500	13800	1.1	6	3200×1500×1850
KBSG-1600/10	1600	10(6)/3.3	Yd11	3100	16500	1	6	3450×1650×1950

Electric main wiring

Mining Flameproof Dry-type Transformer Electric Main Wiring Diagram



Product Structure

Our Mining Flameproof Transformer features a unique "three-section" modular design, ensuring ultimate safety and ease of maintenance.

1、Main Flameproof Chamber

· Rugged Corrugated Casing

Constructed from welded special steel plates, it can withstand the high pressure of an internal gas explosion without deformation, effectively isolating the unit from methane environments.

· H-Class Dry-type Core & Coils

Integrates a high-quality silicon steel core with high-temperature H-Class insulated coils. The oil-free design eliminates fire hazards.

2、Independent Terminal Boxes

· HV/LV Compartmental Isolation

The high-voltage and low-voltage wiring systems are housed in separate flameproof terminal boxes on either side of the main body, preventing interference and enhancing maintenance safety.

· Flameproof Cable Glands

Equipped with dedicated flameproof sealing rings and clamping devices to ensure absolute sealing reliability at the cable entry and exit points.

3、Mobile Base Structure

· Heavy-duty Skid/Wheel Design

The reinforced bottom structure features rugged steel skids (or mine car wheels), specifically designed for frequent towing and movement in narrow underground tunnels.

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