

Specifications and Models of Distribution Boxes in Azerbaijan Power Plants

Article Overview

Azerbaijan power plants commonly use GGD, GDH, PGL, GCK, GCS, MNS, and specialized stainless steel or explosion-proof distribution boxes, with rated voltages from 380V to 660V and currents up to 3150A.

Low-Voltage Fixed Switchgear

GGD Series: Widely used in power plants and substations, the GGD type AC low-voltage distribution cabinet operates at AC 50Hz, with a rated voltage of 400V and current ratings of 1000A (GGD1), 1600A (GGD2), and 3150A (GGD3). It features large breaking capacity, excellent dynamic and thermal stability, and complies with GB7251.1-2023 standards. The protection level is IP30, suitable for indoor installation with ambient temperatures from -5°C to +40°C and altitudes up to 2000m . **GDH and PGL Series:** These are also low-voltage fixed switchgear, used for stable power distribution in industrial and power plant environments. GDH parameters vary by manufacturer, while PGL is known for reliability in continuous power supply applications .

Low-Voltage Withdrawable Switchgear

GCK Series: Designed for motor control centers and power distribution, operating at 660V, 60Hz, suitable for motor-driven equipment and lighting systems. **GCS Series:** Operates at 400V, 50Hz, used in power plants, oil facilities, and high-consumption buildings. **MNS Series:** Compact and stable, suitable for small power plants, industrial enterprises, and hotels, providing flexible low-voltage distribution solutions .

Specialized Distribution Boxes

Explosion-Proof and Dust-Proof Models:

- o **BXM(D) Series:** For explosive gas environments, widely used in petrochemical plants and oil platforms.
- o **BHD Series:** Dust-proof, suitable for coal and smelting industries.
- o **BXP Series:** Dual explosion-proof for gas and dust, ideal for high-risk industries like petroleum, chemical, and military applications .
- Stainless Steel Enclosures:** Used in power plants for indoor and outdoor installations, these boxes provide a closed or semi-closed space for circuit breakers, residual current devices, busbars, and measuring instruments. They ensure stable power distribution, protect against environmental stresses, and allow modular internal layouts for easy maintenance .

Modern and Smart Distribution Boxes

Some distribution boxes, such as those from Wieland, support decentralized installation and pluggable

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electronics, suitable for industrial plants and smart building applications. They comply with IEC 61439 and IEC 61535, offering flexibility for energy, signal, and data distribution, with options for ventilation to manage heat dissipation .

Summary

In Azerbaijan power plants, distribution boxes are selected based on voltage, current rating, environmental conditions, and safety requirements. Common models include GGD, GDH, PGL, GCK, GCS, MNS, and specialized stainless steel or explosion-proof enclosures, covering a wide range of applications from standard low-voltage distribution to high-risk industrial environments. Proper selection ensures reliable power distribution, safety, and compliance with international standards.

Our power distribution boxes deliver reliable power solutions across diverse applications. From industrial settings like manufacturing

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There are many specifications and models of Distribution box. The following are some

Check the specifications and models of the equipment and its attachments and spare parts against the packing list. They should

From decentralized energy, signal and data distribution to distribution boxes for smart buildings, we offer the right solution. We mount

OpenInfraMap Stats Azerbaijan Azerbaijan has 87 power plants totalling 7,681 MW and 9,691 km of power lines

The Renewables Readiness Assessment explores Azerbaijan's renewable energy potential, policy landscape, and strategies for

Azerbaijan has one of the highest energy self-sufficiency ratios in the world as a major crude oil and natural gas producer.

Power Distribution Frame Manufacturers in Azerbaijan- We are leading Power Distribution Frame Manufacturers in Azerbaijan,

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New Investments: After the restoration of independence, several small power plants entered the market through private investment.

Aesthetic, compact steel distribution enclosures for hotel electrical rooms, resort complex power distribution, and outdoor event

GSDB-4030 400x300x190 3 Phase Service Connection Distribution Box/ ABC Distribution Box 11.

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The XL type low-voltage power distribution cabinet uses domestically designed new components. The enclosure is made of bent

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