

Article Overview

Distribution boxes for power stations vary by type, voltage, frequency, and application, including low-voltage fixed and withdrawable switchgear, industrial automation boxes, and smart decentralized solutions.

Overview of Common Distribution Box Models and Specifications

Series / Model	Type	Rated Voltage	Frequency	Application	Key Features
GGD	Low-voltage fixed switchgear	380V	50Hz	Power plants, substations	High breaking capacity, stable performance, novel structure
GDH	Low-voltage fixed switchgear	Varies by manufacturer	50Hz	Industrial power supply	Stable operation, flexible design
PGL	Low-voltage fixed switchgear	380V	50Hz	General power distribution	Reliable, widely used in stable power supply environments
GCK	Low-voltage withdrawable switchgear	660V	60Hz	Motor control, lighting	Composed of power distribution center and motor control center
GCS	Low-voltage withdrawable switchgear	400V	50Hz	Power plants, high-rise buildings, oil industry	High power consumption applications, stable performance
MNS	Low-voltage withdrawable switchgear	Varies	50Hz	Small power plants, industrial, mining, hotels	Compact, stable, versatile for low-voltage distribution
TOP Series (TOP-TS, TOP-TF, TOP-LS, TOP-PS, TOP-PF, TOP-S)	Modular distribution boxes	1-way to 36-ways	Varies	Industrial and building applications	Dimensions and mounting sizes vary, flexible configuration
Amphenol LTW	Industrial connector distribution box	IP67 rated	Varies	Automation, robotics, processing facilities	Pre-wired, M8/M12 connectors, LED indicators, oil-resistant, vibration-resistant, customizable cable lengths 1-10m
Wieland Smart	Decentralized smart distribution	Varies	Varies	Buildings, industrial plants, smart building automation	Pluggable installation, energy-efficient, supports power, signal, and data distribution, ventilation for heat dissipation

Key Considerations

- o Voltage and Frequency: Low-voltage boxes typically range from 380V to 660V, with AC frequencies of 50Hz or 60Hz depending on application and region .
- o Application Environment: Fixed switchgear is common in substations and power plants, while withdrawable switchgear suits industrial and high-consumption environments .
- o Connector and Cable Options: Industrial boxes like Amphenol LTW support M8/M12 connectors, pre-wired configurations, and IP67 protection for harsh conditions .
- o Decentralized vs Centralized: Smart distribution boxes allow decentralized installation close to loads, improving energy efficiency and enabling building automation .
- o Customization: Many models allow custom cable lengths, labeling, and modular configurations to meet project-specific requirements . This table and overview provide a comprehensive reference for selecting distribution boxes for power stations, industrial facilities, or smart building applications, highlighting voltage, frequency, type, and key features for each model.



Power Station Distribution Box Specifications and Models

Distribution boxes FieldPower®; for power transmission Branching, switching and protecting energy - The FieldPower®; power bus

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Key Takeaways A distribution board safely distributes electrical power from a main source to

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Distribution boxes, also known as electrical distribution boards or panels, are pivotal components in electrical systems, ensuring the

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

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