



HEBEI GAOJING ELECTRICAL EQUIPMENT CO., LTD



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DECISION KEEP IMPROVING

HEBEI GAOJING ELECTRICAL EQUIPMENT CO., LTD

COMPANY PROFILE

Hebei Gaojing Electrical Equipment Co., Ltd. (hereinafter referred to as Gaojing Company) is located in Handan, Hebei Province. It is a modern enterprise integrating research and development, production and sales of high-efficiency and energy-saving transformers, high and low-voltage complete sets of equipment, box-type substations, new energy intelligent charging equipment and related supporting products.

Gaojing Company adheres to the development concept of "Innovation-Driven, Green Rise" and has deeply engaged in the fields of high-efficiency and energy-saving power transmission and distribution as well as new energy. Now, it has become a leading enterprise in the production and research and development of China's tridimensional toroidal core energy-saving transformers. The company covers an area of 100,000 square meters and has 600 employees. It owns nearly 100 independent intellectual property rights, including 12 invention patents, and has participated in the formulation of 10 national and industrial standards in China.

Gaojing Company possesses independent full-chain production capacity for core products, with an annual output of 100,000 units/sets of transformers and 50,000 units/sets of charging piles, and an annual output value of 1 billion yuan. Its market share in China's transformer market has remained leading for years. Gaojing Company has successively obtained many honorary certifications such as "Specialized, Refined, Differential and Innovative Little Giant Enterprise", "Green Factory", "Single Champion Enterprise" and "Leading Brand of China's Electrical Industry". Its products have been included in the Catalogue of Promoted Industrial Energy-Saving Technologies and Equipment in China and the Catalogue of Key Promoted New Technologies of State Grid Corporation of China, and have won the "Energy Efficiency Star" product title awarded by the Ministry of Industry and Information Technology of China.

Gaojing Company practices the values of "High Requirements, High Quality, Joint Growth and Common Development", has built an advanced management system and obtained certifications for China's quality, environment, occupational health and energy management systems. It has also obtained internationally recognized product reports, and its products have been applied in many countries and regions, gaining support and recognition from a large number of users. In the future, Gaojing Company looks forward to working hand in hand with partners around the world to jointly promote the green development of the power system and make outstanding contributions to empowering a beautiful world!



Comprehensive Office Building



Transformer Production Workshop



Sheet Metal Workshop



Core Workshop



Electrical Complete Set Workshop



Transformer Tank Welding Workshop

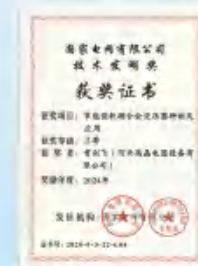
Company Panorama



Leading Brand of China's Electrical Industry



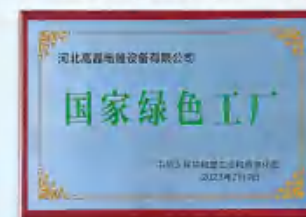
China's "Specialized, Refined, Differential and Innovative Little Giant Enterprise"



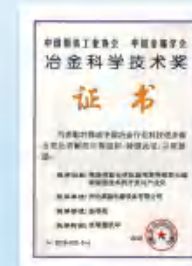
State Grid Corporation of China
Technology Invention Award



China's "Energy Efficiency Star" Product



China's Green Factory



Metallurgical Industry Science and
Technology Award



ISO9001 Certificate



ISO14001 Certificate



ISO45001 Certificate



ISO50001 Certificate



Zero-Carbon Factory
Certificate



10~35kV Laminated Core Oil-Immersed Transformer

Core Structure:

Firstly, The core is made of high-magnetic-permeability and low-loss silicon steel material, with a stepped multi-stage seam structure, which is conducive to reducing no-load loss and no-load current. Secondly, The core tensioning and clamping adopt an anti-loosening structure.

Winding Structure:

The high-voltage winding is a multi-layer cylindrical winding, and the low-voltage winding is a cylindrical or foil-type. The inter-layer insulation of the winding is made of adhesive tape. The winding ends adopt formed end rings, and the oil passage adopts a hard support strip curtain, which is fully supported without gaps, with good mechanical strength and heat dissipation.

The tank is a corrugated sheet rectangular tank. The corrugated sheets are welded automatically by robots, resulting in full, smooth, flat and evenly thick welds to ensure no oil leakage. The elasticity of the corrugated sheets can compensate for the volume change of transformer oil caused by temperature changes. And all fasteners on the outside of the transformer are anti-corrosion treated to ensure anti-corrosion and rust prevention. The outer surface is spray-coated, ensuring a long service life and an attractive appearance.



10~35kV Series Oil-Immersed Tridimensional Toroidal Core Distribution Transformer

The tridimensional toroidal core is rolled on the production line, with no seams and no need for transverse shearing equipment. This eliminates quality fluctuations caused by manual lamination and disassembly of upper yokes, resulting in high production efficiency. By using advanced high-quality low-loss silicon steel materials or amorphous alloy materials, after annealing, the no-load loss and no-load current are greatly reduced. Since there is no air gap in the laminated core and the outer part is integrally solidified, the mechanical strength of the core is improved and the noise level is significantly reduced.

Performance Features:

1. Adopts a tridimensional toroidal core, with symmetrical three-phase magnetic circuit.
2. No-load loss and no-load current are significantly reduced, with remarkable energy-saving effect (the no-load loss of amorphous alloy core distribution transformer can be reduced by more than 70% compared with traditional products).
3. Continuous rolling of core without seams, with low noise level.
4. Strong resistance to sudden short circuits.
5. The core does not need to be fastened, and long-term operation is maintenance free.



Oil-Immersed 35~110kV Energy-Saving Power Transformer

The transformer core adopts a laminated core or tridimensional toroidal core structure, featuring energy saving, low noise, safe and reliable operation.

The amorphous alloy tridimensional toroidal core power transformer has extremely low no-load loss, which can be reduced by more than 75% compared with traditional products.



SC(B) Series Epoxy Resin Cast Laminated Core Dry-Type Transformer

The core of the transformer is made of high-magnetic-permeability and low-loss silicon steel materials. The low-voltage coil adopts a foil-wound structure, which has strong short-circuit resistance. The high-voltage coil uses a segmented winding and epoxy resin vacuum casting to ensure ampere-turn balance, mechanical and electrical strength, moisture resistance and corrosion resistance, with extremely low partial discharge level, and good dynamic and thermal stability.

The dry-type transformer is equipped with a complete temperature detection and protection system, as well as an intelligent temperature control system. It can automatically detect and display the operating temperature of each of the three-phase windings in a cyclic manner, automatically start and stop the fan, and has functional settings such as alarm and trip.



SCB-RL Series Epoxy Resin Cast Tridimensional Toroidal Core Dry-Type Transformer

Product Features:

1. Adopts tridimensional toroidal core, and symmetrical three-phase magnetic circuit.
2. Significantly reduces no-load loss and no-load current, delivering remarkable energy-saving effect.
3. Continuous rolling of core without seams, with low noise level.
4. Main insulation is encapsulated with epoxy resin, suitable for complex operating environments.
5. Windings are solidified into a sturdy integral structure through vacuum casting, with low partial discharge, high mechanical strength and strong short-circuit resistance.
6. Three-dimensional three-phase structure creates a chimney effect, enabling excellent coil heat dissipation and strong overload capacity.
7. The core does not need to be fastened, and long-term operation is maintenance free.



Box-Type Substation for Photovoltaic and Wind Power

1. Suitable for voltage class of 35kV and below, with main transformer capacity of 3150kVA and below. It features a compact and miniaturized structure.
2. Main heat-generating components (transformer body) are placed outdoors, while other electrical appliances are housed in a cabinet with IP54 protection rating.
3. Two options are available for the high-voltage unit: vacuum load switch-fuse combination device and vacuum circuit breaker.
4. Equipped with a gas relay, which provides light gas alarm and heavy gas protection to implement gas protection for the system.
5. It is rainproof, snowproof, dustproof, corrosion-resistant and fully enclosed, meeting the requirements for long-term outdoor use.
6. The entire station adopts an intelligent design. The protection system uses a substation microcomputer comprehensive automation device, which can realize the "four remote" functions.
7. It can be designed and produced according to the requirements of design institutes, helping users save investment.



YB Series Box-Type Substation

Application Scope:

Suitable for small unattended substations with a voltage class of 10kV and below, and a transformer capacity of 3150kVA and below. It is widely used in residential areas, commercial centers, substations and other places.

Main Functions:

It fulfills functions including power conversion, distribution, transmission, metering, compensation, as well as system control, protection and communication.

Main Features:

It is fully enclosed, equipped with intelligent temperature control, resistant to corrosion and moisture, and ensures safe and reliable operation. It also has the characteristics of low investment, short construction period, small floor space and easy coordination with the environment.



Low-Voltage Switchgear

1. The framework adopts C-shaped profiles.
2. Each functional compartment of the switchgear cabinet is isolated from one another. These isolation compartments are divided into functional unit compartments, busbar compartments, and cable compartments, with each compartment serving a relatively independent role.
3. Horizontal busbars are arranged in a flat layout at the rear of the cabinet. This design enhances the busbars' resistance to electric force and is a basic measure to ensure the main circuit has high short-circuit strength.
4. The design of cable compartments makes it very convenient for cables to enter and exit both up and down.
5. Outlet drawers are available in multiple module sizes. Drawers for the same functional unit have good interchangeability, and the rated current of the unit circuit is 630A and below.
6. The drawer panel is equipped with clear indicators for positions such as "Open", "Close", "Test", and "Extracted". Drawer units are fitted with mechanical interlocking devices. The cabinet is centered on drawer units, and meanwhile, drawer units and fixed units can be mixed and combined for flexible use.
7. The cabinet has an IP30 protection rating.



High-Voltage Switchgear

1. Equipped with simple and effective "five-prevention" interlocking to prevent misoperation.
2. Compatible with VS1-12 (ZN63A), VD4, ZN12, 3AH vacuum circuit breakers.
3. Can be equipped with voltage transformer handcart, metering handcart, isolation handcart, fuse handcart, etc. Handcarts with the same purpose feature interchangeability.
4. Heaters can be installed separately in the circuit breaker compartment and cable compartment to prevent condensation and corrosion.
5. The cable compartment has sufficient space to connect multiple cables.
6. The enclosure protection rating is IP4X. When the handcart compartment door is open and between different compartments, the protection rating is IP2X.



Integrated DC Charger

The GJEVDC Integrated DC Charger realizes unified design and standardized management of charging equipment by optimizing the electrical principle of DC charging equipment, designing dedicated components, selecting general components, and improving the external structure, internal cabinet layout, and equipment installation. This comprehensively enhances the compatibility, reliability, and maintainability of the charging equipment.

Main Features:

Adopts a wide-range constant power output design with broad output voltage and current ranges, which can meet the fast charging needs of various electric vehicles.

The charging module is equipped with a standard isolated CAN communication port to communicate with the monitor.

Features a user-friendly human-machine interface (HMI) for simple and convenient operation.

Has multiple charging operation modes to meet customers' diverse charging mode requirements.

Equipped with comprehensive protection functions.



Intelligent Group Charging Series

The split-type rectifier cabinet of Gaojing Company's new-generation intelligent flexible group charging series adopts a full-matrix topology. It features a powerful function of on-demand power distribution, with an output voltage compatible with 1000V and a supported power range of 240-1600kW, which can meet the different needs of 4-24 charging guns.

This rectifier cabinet supports remote fault diagnosis via the operation and maintenance platform, enabling timely detection and resolution of problems. It also supports remote OTA and USB-OTA, facilitating system updates and maintenance. Additionally, it allows multi-platform access, providing customers with flexible choices based on different application scenarios to fully meet various operational needs.

Furthermore, this rectifier cabinet has strong adaptability. It is compatible with split-type liquid-cooled terminals, as well as conventional dual-gun terminals and single-gun terminals, offering users a variety of charging options.



Liquid-Cooled Group Charging Series

The full liquid-cooled intelligent group charging series is equipped with liquid-cooled modules and is compatible with all functions of integrated chargers. It dissipates heat for charging modules and key components through a coolant circulation system, supporting high-power charging. It features an efficient conversion efficiency of over 96.5%, excellent heat dissipation, long service life, high protection rating, and ultra-low noise.

This series can meet full-scenario applications such as residential areas, shopping malls, gas stations, integrated optical storage and charging stations, and dedicated charging stations for buses/heavy-duty trucks.

Performance in Cooperation with State Grid
Corporation of China(SGCC)



Performance in the Chinese Transformer Market



Performance in the Chinese Charging Pile Market



Performance in the Ethiopian Market



Performance of Chinese Electric Power Construction Projects



Performance in the South Korean Market





HEBEI GAOJING ELECTRICAL EQUIPMENT CO., LTD

ADD : Luchan Street, Industrial Park in Yongnian county Handan, Hebei Province
TEL : +86 310-6608666
FAX : +86 310-6608999
URL : www.bbgjdq.com
E-MAIL : bhgjdq@163.com

