

SINCE 1990

Partner with giants, keep pace with the world.



CEEGB Product Family



China Electric Equipment Transformer Co., Ltd.

R&D Center: No. 166, Kaiming Street,
Yuhua District, Nanjing, Jiangsu Province

+86 400-080-0008

ceeg.cn | ceegenergy.com | ceegelectric.com



July 2026 Edition

**Understanding industries,
anticipating your needs.**

Forged through experience across diverse industries,
every solution is tailored to your application.

CONTENTS



01

COMPANY PROFILE

04

02

THE FOUR FACTORIES

06

03

PRODUCT INTRODUCTION

08

04

SERVICE NETWORK

38

01 COMPANY PROFILE

As a leading player and innovator in the global energy equipment industry, CEEG has remained committed to its mission of “Powering the World with Excellence” since its founding. The company’s operations are built around three core business pillars: power transmission and distribution, smart energy systems, and renewable energy & energy storage solutions.

Through an international industrial framework spanning R&D, intelligent manufacturing, and full-lifecycle services, CEEG is dedicated to delivering efficient, reliable, green, and intelligent transformer products and solutions for a wide range of applications.

With four modern industrial bases in Yangzhong, Jurong, Binjiang, and Lukou (under construction), CEEG has established a large-scale intelligent manufacturing system with an annual production capacity approaching 100 million KVA and a sustained annual growth rate of over 20%.

The company also operates R&D and business centers in Nanjing, Beijing, Shenyang, and overseas, creating an integrated network that enables responsive support for customers worldwide.

Its product portfolio covers a full range of voltage levels and application scenarios, serving industries including renewable energy, data centers, energy storage, electrolytic hydrogen production, shipping, mining, and industrial infrastructure. The reliability of its products and the quality of its services have earned the trust of customers worldwide.





02 THE FOUR FACTORIES



Yangzhong Factory



Nanjing Lukou Factory (under construction)



Nanjing Binjiang Factory

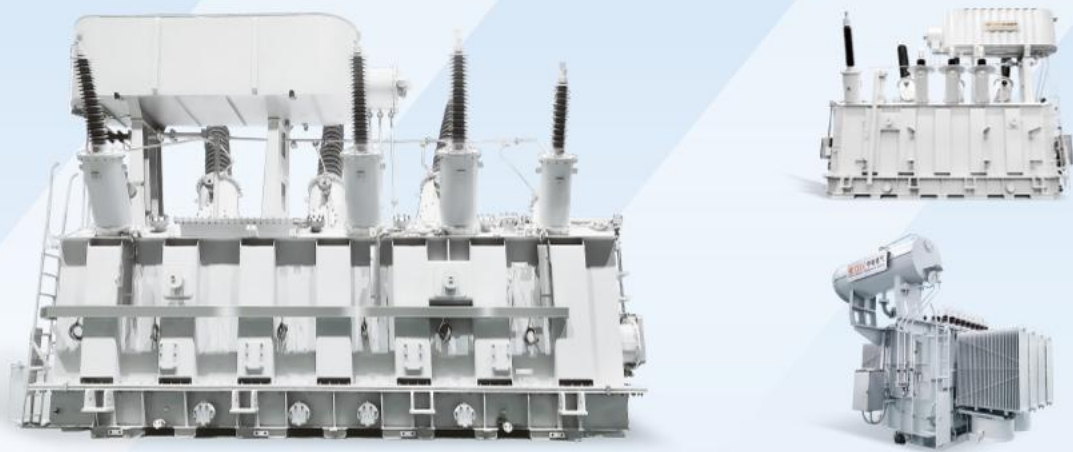


Jurong Factory

03 PRODUCT INTRODUCTION



Oil-immersed Extra-High / High Voltage Power Transformers 500kV, 330kV, 220kV, 110kV (66kV)



7-level Intelligent Control & 3D Simulation The Top Choice for Smart Grid Hub Core Equipment

CEEG Electric's 330kV, 220kV and 110kV (66kV) oil-immersed extra-high and high-voltage power transformers are designed and manufactured using proprietary technologies and patented innovations. Built with high-quality low-loss silicon steel and a self-optimized high-strength oil-paper insulation system, the transformers employ advanced 3D magnetic flux simulation to optimize magnetic field distribution.

They feature low losses, low partial discharge levels, low noise, and excellent short-circuit withstand capability, making them ideal for transmission grid projects, large-scale integrated energy bases, renewable energy and energy storage projects, and renewable energy grid-connection applications.

Product Description



Clean Intelligent QC

Manufactured in a fully enclosed, dust-free environment with constant temperature and humidity control, our products are supported by an end-to-end digital traceability system. Every stage of the production process is precisely monitored to ensure consistent quality and long-term reliability.

Equipped with our proprietary 7-level intelligent temperature control system and advanced 3D thermal simulation technology, the transformer optimizes cooling performance under various operating conditions, enhances insulation reliability, and extends operational life.



Intelligent temp control



Low-noise design

By optimizing core, winding and tank noise sources, we adopt low flux density design, elastic damping structure and noise reduction shielding technology to ensure noise levels exceed national standards.

The sealing structural components adopt an integrated one-piece forming process, combined with a triple leak-testing system consisting of fluorescent penetrant inspection, positive pressure holding tests, and negative pressure leak detection, effectively eliminating potential leakage risks at their source.



Zero-leakage sealing



Low-loss core technology

The core adopts an advanced lamination process to minimize no-load losses.

Successfully passed the sudden short-circuit test conducted by the National Transformer Testing Center, ensuring safe and reliable performance.



High short-circuit reliability

Application Cases

- Substation Project of the 4th Division, Khorgdara City
- Runyang Oriental Substation Project
- Huaneng Jiacha Hydropower Station Project
- Shared Energy Storage Project, Binhai Town, Zhanhua, Shandong
- CEEC (Phase I) Centralized Shared Energy Storage Project, Gaomi
- EPC Project of Shannan Dingli Hongyun Information Center Substation
- Guoneng Changyuan Gucheng Photovoltaic Power Project
- Changyuan Electric Power Jingmen Company Source-Grid-Load-Storage New Energy Base
- 220kV Substation for Tencent East China Cloud Computing Base
- Yichang Factory of Angel Yeast
- Zhanjiang Chenming Pulp & Paper Co., Ltd.
- China Unicom Huailai Data Center
- Ningxia Submerged Arc Furnace Waste Heat Power Generation Project of Zhongguan New Energy Technology
- Liuzhou Steel Green Manganese Series New Material Industry Base
- Xinyuan Foundry Substation
- Phase I Project of Xuzhou Urban Rail Transit
- Substation Project of Wuxi Technology Center of SVOLT Energy Technology
- 330kV Main Transformer Project of Ningxia Special Steel

S(B) Silicon Steel Type
SH(B) Amorphous Alloy Oil-Immersed Transformers
S(B): 10kV/20kV/35kV, Classes 13/18/20/22
SH(B): 10kV/20kV/35kV, Classes 15/21/25



CEEG's S(B)/SH(B) series oil-immersed distribution transformers are developed using a proprietary 3D parametric design platform. Built with high-quality low-loss silicon steel or amorphous alloy cores and an optimized high-strength insulation system, they deliver four key performance advantages: low losses, low noise, reliable sealing performance, and excellent short-circuit withstand capability. Widely used in industrial facilities, industrial parks, urban and rural distribution networks, and rail transit infrastructure projects, these transformers provide stable operation and outstanding energy efficiency.

Product Description



Ultra-low loss design

High-permeability silicon steel and an automated lamination process reduce no-load losses and excitation current, while amorphous alloy transformers offer significantly lower no-load losses than conventional transformers.

Manufactured using Germany's GEORG automatic corrugated tank production line, the transformer features a seamlessly integrated tank structure. Combined with a full-vacuum oil filling process, one-piece acrylate seals, positive-pressure and vacuum leak testing, and an optimized flange groove design, it effectively eliminates potential leakage risks.



Zero-leakage seal guarantee



Quiet operation

The transformer adopts a low-flux-density design. Combined with precision lamination control using Swiss stacking equipment and a robust clamping and bracing structure with specialized vibration-damping technology, it delivers low noise performance and is ideally suited for noise-sensitive industrial parks and urban distribution networks.

Coils wound with semi-hard copper wire ensure high assembly accuracy. Optimized core clamping structure delivers strong short-circuit withstand capability for safe and reliable operation.



High short-circuit resistance



Intelligent lean quality control

An end-to-end digital traceability system, combined with automated final-product testing equipment, enables real-time data comparison and analysis to ensure consistent product performance and support long-term operational reliability.

Application Cases

- Inner Mongolia First Machinery Group
- Jintan Salt Chemical Co., Ltd. of China National Salt Industry Group
- Hebei Taihang Iron and Steel Group
- Zhejiang Wanbang Paper Industry
- Shanghai-Chongming Expressway
- Huamengdong Energy Group
- Zhongxin Iron and Steel Group
- Shenyang JD Logistics Park Project

Dry-type Transformers
SC(B) Series Epoxy Cast
SG(B) Series Open Ventilated Dry-type Transformers
10kV/20kV/35kV; Classes 12/14/18



Customizable silicon steel or amorphous alloy core solutions,
combined with triple leak-prevention technology, for
reliable performance in distribution network applications.

Supported by patented dry-type transformer technologies and CEEG’s proprietary 3D integrated design platform, the transformer is engineered to meet stringent quality standards. Featuring an intelligent temperature control system, it provides excellent insulation stability and short-circuit withstand capability, and is backed by ISO, type-test, and PCCC certifications.

Available with dust-proof, corrosion-resistant, and high-overload configurations, it is widely used in industrial facilities, rail transit systems, rural distribution networks, and data centers, offering safe operation and easy maintenance.

Product Description



Ultra-low loss design

Adopts high-quality high-permeability silicon steel with full-miter joints and multi-step stepped-lap lamination. No-load losses are significantly reduced, achieving energy efficiency well above national standard requirements and helping lower long-term operating costs.

Featuring a self-leveling nano-coating finish, low-flux-density design, and optimized structural damping technology, the transformer achieves measured noise levels well below national standards, making it ideal for noise-sensitive indoor environments.



Quiet operation



High safety performance

High-voltage coils are manufactured using Germany’s Heidrich vacuum casting equipment with an automated resin mixing process, producing bubble-free coils with low partial discharge levels and stable, reliable electrical performance.

First in China to pass all KEMA E2, C2, and F1 tests. Advanced 3D simulation of electric, thermal, and magnetic fields enables precise structural optimization, preventing localized overheating and electric field distortion.



Powered by 3D simulation



Two-mode flexible adaptation

Supports dual structural configurations that can be tailored to specific application requirements, providing an optimal balance between standardization and customization.

Advanced intelligent transformer solution featuring real-time data collection, fault prediction, and early warning through a cloud-based IoT platform, helping minimize unplanned downtime.



Intelligent active O&M



Material-saving compact design

Featuring optional DuPont® Nomex® insulation technology, the transformer achieves up to 10% reduction in overall volume and material consumption, maximizing space utilization and reducing transportation, installation, and deployment costs.

Application Cases

- Beijing Wukesong Sports Center (Beijing Olympics)
- Qingdao Sailing Command Center (Beijing Olympics)
- Nanjing Metro
- Huangpu River Cross-River Tunnel Project (Shanghai World Expo)
- Shenzhou-5 Manned Space Program
- Beijing South Railway Station
- Capital Airport
- Guangdong-Hong Kong Cross-Sea Bridge
- China Nuclear Power Engineering Co., Ltd.
- National Olympic Sports Center Comprehensive Training Gymnasium
- Beijing Aerospace Times Laser Navigation Technology Co., Ltd.
- Chinese People's Armed Police Force
- China University of Petroleum
- Beijing Tiantan Hospital

Dry-type Transformers SCRBH, SCBH, SGBH Series Amorphous Alloy Dry-Type Transformers 10kV/20kV/35kV; Class 15/17/19



Recognized leader in amorphous alloy transformer technology
Trusted supplier to China’s top three telecom operators
Widely deployed in national green data center projects

As a founder and leader of China's amorphous alloy transformer industry, CEEG has over 20 years of experience. With innovative spirit, it drives industry development. Its products, with material and structure innovations, are high-efficiency and low-carbon, applicable to power grid, new energy, green data centers and major infrastructure, providing long-term stable value.

Product Description



More energy savings

Compared with conventional silicon steel transformers, amorphous alloy transformers reduce no-load losses by 15%–30%, significantly lowering energy consumption and operating costs. A 2500 kVA amorphous alloy transformer can save up to 21,000 kWh annually and complies with the latest GB 20052-2024 energy efficiency standard.

Reduces 8.4 tons of coal and 21 tons of CO₂ per unit annually. Energy-saving production with no waste water or gas.Safe, flame-retardant, explosion-proof and pollution-free.



Lower carbon emissions



Smaller and lighter

China’s first three-phase three-limb structure. It is 20%+ lighter, occupies 5%–10% less footprint, and offers a longer service life.

At a flux density of 1.4 T, the area under the magnetization curve of amorphous ribbon is only 10% of that of silicon steel.



No-load loss reduced by 70%–80%



Max overload capacity: 200%

Designed to meet emergency power demands under sudden high loads in data centers and high-power infrastructure equipment.

Unique patented core technology supports all primary and secondary Y or D connections, offering higher mechanical strength and ensuring no impact on performance or structure during transportation and vibration.



Patented core tech



Minimizes eddy current loss

Ultra-thin 0.025 mm, high electrical resistance.

Application Cases

- ### Data Centers

 - China Mobile International Information Harbor Project
 - China Telecom Nanjing (Jishan) Cloud Computing Data Center
 - Zhenru Data Center
 - China Resources Group Data Center
 - Zhejiang Cloud Computing Data Center
 - Xiamen Telecom Haixia Communication Hub Center
 - China Telecom Beijing-Tianjin-Hebei Data Center
 - National Supercomputing Shenzhen Center
 - China Unicom Huailai Data Center
 - National Computer Network Emergency Response Technical Team/Coordination Center of China
 - Wuxi Zhongwuda Baidu Data Center
 - China Communications (Zhongwei) Data Center

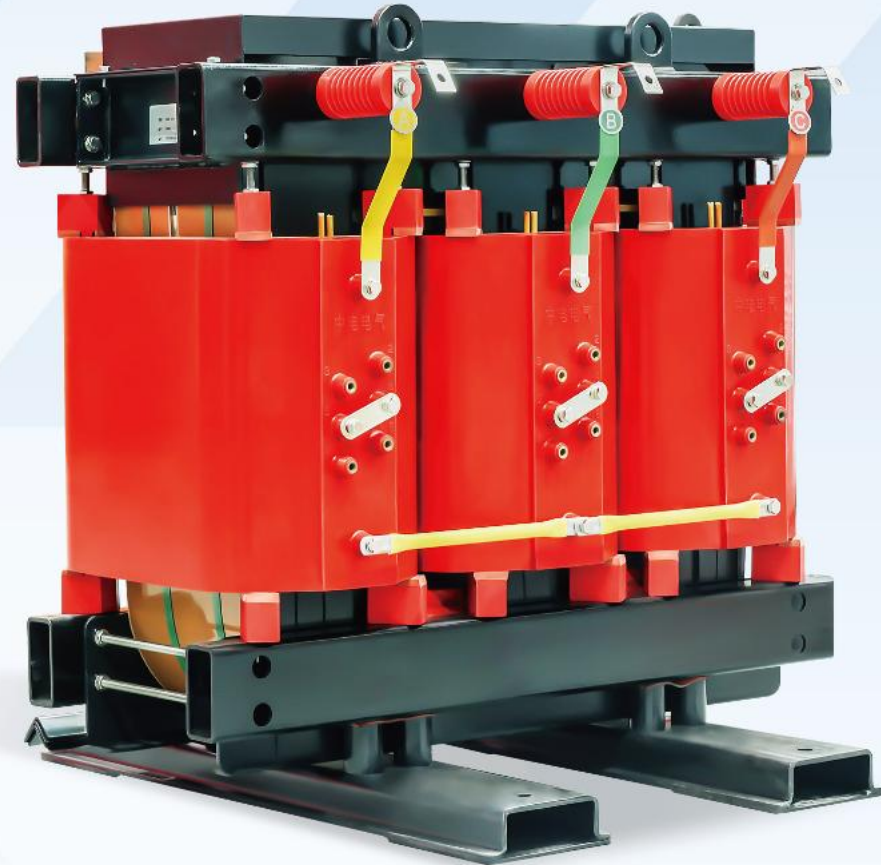
- ### Transportation & Municipal Infrastructure

 - Beijing Municipal Administrative Center Project (BMC Project)
 - Chongqingdong Railway Station
 - The First Affiliated Hospital of Xi'an Jiao Tong University
 - CCCC Second Highway Engineering Bureau - G310 National Highway
 - Sanya Phoenix International Airport
 - Nanjing Metro Line S8
 - Qingdao Jiaodong International Airport Terminal
 - Yangzhou Railway Station

- ### Expressway Construction & Industrial Parks

 - China Railway Construction Chongqing Investment Group Co., Ltd. - Guizhou Jianhe-Liping Expressway
 - Baise City North-South Transit Line Project
 - Emeishan-Hanyuan Expressway
 - Fenyang-Shilou Expressway Mechanical and Electrical Engineering Construction Project
 - Bohai Shipyard Group Co., Ltd. Project
 - Foton Shandong Factory
 - Dalian Metallurgical Bearing Co., Ltd.
 - BAIC (Changzhou) Automobile Co., Ltd.

Medium Voltage High Frequency Transformer



Benchmark core component for solid-state converters, customizable for global equipment manufacturers.

Medium-voltage high-frequency transformers are core components of solid-state transformers (SST) and power electronic transformers (PET). They are designed to meet key requirements such as high power density, extremely high conversion efficiency, high-voltage compatibility, stable operation across a wide temperature range, and long service life.

With extensive expertise in high-frequency soft magnetic material applications, low-loss winding design, high-efficiency insulation structures, and thermal management technologies, CE Electric offers customized R&D and precision manufacturing solutions for system integrators. These solutions help customers shorten development cycles, reduce costs, and improve overall system performance.

Product Description



High frequency & high efficiency

Nanocrystalline / amorphous core, low-leakage windings, Operating frequency: 400 Hz – 100 kHz, Peak efficiency: 99.8%, Power density: ≥ 8 kW/L30–50% lighter, 40–60% smaller, Transport cost reduced by $\geq 25\%$, deployment time reduced by 30%

Suitable for 6 kV–35 kV medium-voltage systems, this product features F/H class insulation with customizable design, is tested for lightning impulse and partial discharge (PD) performance, and is hermetically sealed for operation in harsh environments, providing a triple safety protection system.



High-voltage compatible



Custom design

Based on Ansys Maxwell and Flotherm simulation, it is compatible with DAB, CHB, and MMC topologies, covering a power range of 5 kW to 10 MVA and voltage levels from 0.4 kV to 35 kV, with support for multi-cooling systems, full-process customization, and 100% compatibility, while reducing R&D cycles by over 30%.

Made with high-quality core materials, it operates in a temperature range of -40°C to 125°C , is resistant to vibration and shock, and offers MTBF $> 100,000$ h, a service life of ≥ 20 years, and a reduction in operation and maintenance (O&M) costs of over 30%.



Stable and durable



Strict quality control

ISO 9001:2015, IATF 16949 certified, full-chain QC + 16 factory tests, consistent batch performance.

Complete Products

Energy Storage Boost Converter Integrated Machine



2025 IDC Innovation Award
585-unit MEA Record
Core Energy Storage Export Solution

CEEG Electric Energy Storage Boost Converter Integrated Machine integrates an energy storage battery system, step-up transformer, PCS, high/low voltage distribution units, and an intelligent communication unit, forming a fully integrated energy storage system solution. It is especially suitable for applications with stringent requirements for power supply reliability and energy efficiency management. With proven and reliable performance, it has achieved over 10,000 units deployed worldwide and is widely used in new energy power generation, hydropower facilities, pumped storage systems, and microgrids.

Product Description



Simplify procurement

Integrate multiple functions into a single device, simplify procurement, and shorten the construction period.



Integrated prefabricated

Prefabricated and pre-tested, with no on-site internal wiring required. Compact 20 ft high-cube container design enables easy overseas shipping, plug-and-play installation, and time- and space-saving deployment.



Robust design

Suitable for high-altitude, low-temperature, and desert environments. IP65 protection, C5 corrosion resistance. Operating temperature: -30 °C to 60 °C (derating above 50 °C). Altitude: up to 2000 m without derating (higher altitude customizable).



Modular design

Flexible parallel scheme, support multi-unit parallel expansion, easy and efficient maintenance.



Up to 99% efficiency

Three-level topology design, reducing energy loss during conversion.



Intelligent control

High-precision sensors collect real-time low-voltage parameters of transformers and ring main units, enabling monitoring and remote switch control.

Application Cases

- Saudi Electric Company (SEC) · Energy Storage Project
- Central African Republic 15MW PV & 5MWh Energy Storage Project
- Tuquan Xinsheng Desertification Control + PV & Energy Storage Project
- Inner Mongolia Huitengxile Wind Farm
- Pinggao Energy Storage Jiuquan Suzhou CNNC Jinguang 100MW Project
- BYD Group Zhongjing Hebei Huailai 28MW/56MWh Energy Storage Project
- Yongzhou Mahuangtang Energy Storage Power Station
- 15MW/33MWh Electrochemical Energy Storage Project of Zhongce Rubber (Jiande) Co., Ltd.
- 7.5MW/15MWh Energy Storage Project for Liangbei Mining Area by Zhejiang Haide Smart Energy Co., Ltd.

Complete Products
IDC Integrated Intelligent Power Module



Featuring modular prefabrication
and a 12-day rapid delivery cycle,
it serves as a benchmark for smart green infrastructure.

Product Description



Integrated design

Integrates 10 kV distribution, transformer, and UPS into a high-density four-terminal system architecture. It saves 50% of space, supports more servers, and significantly improves space utilization.



Efficient build & operate

Rapid delivery: Modular prefabrication reduces the construction period to 12 days (with containerized solutions requiring only 1 week) and cuts labor costs by 40%.



Intelligent O&M

Decoupled UPS design with multi-brand compatibility and hot-swappable modules, enabling zero downtime via digital twin technology. AI-based monitoring ensures 98% fault prediction accuracy and 99.99% system availability.



Energy efficiency

Using amorphous alloy energy-saving transformers, no-load loss is reduced by 60%, saving up to 11,000 kWh per year. The system optimizes data center PUE to below 1.2, reducing operating costs and supporting low-carbon development.



Cost & carbon advantages

Upfront construction costs are reduced by 30%, while optimizing lifecycle total cost of ownership (TCO). Full-chain carbon management cuts emissions by 8.5 tons per module annually, compliant with green data center standards.



Technology & safety

Centralized bypass architecture ensures 99.99% availability with millisecond-level switching under megawatt-level load. A three-level defense system delivers comprehensive protection for safe power supply.

The integrated intelligent power module Dianliang Bifang, launched by CEE Electric, is an innovative power solution designed for scenarios such as data centers. It provides flexible customized services tailored to specific project requirements. Through technological innovation and scenario-based design, it has redefined the standards for data center power systems, offering strong support for the green and intelligent development of computing infrastructure.

Complete Products Smart LV/HV Switchgear



3D parametric design, benchmark for safe power distribution

The CEEC High & Low Voltage Smart Switchgear Series integrates a self-developed 3D parametric design system, intelligent interlocking technology, and a high-precision microcomputer-based protection and monitoring system.

It adopts fully automated CNC sheet metal processing and IP-rated sealed protection, enabling five-prevention interlocking and intelligent monitoring for high-voltage systems, as well as withdrawable, easy-to-maintain and scalable low-voltage designs.

Compliant with national and international standards, the series is widely applied in power plants, industrial parks, high-rise buildings, data centers, and urban grid renovation projects, ensuring safe, efficient, and reliable power distribution.

KIN61-40.5 kV Indoor Metal-Clad Withdrawable Switchgear

Product Description

- Indoor switchgear for three-phase AC 50/60 Hz systems at 40.5 kV, single busbar sectionalized design. It is used in PV plants, urban power supply networks, industrial facilities, and buildings for power reception and distribution, providing circuit control, protection, and monitoring functions.
- Equipped with a comprehensive anti-misoperation interlocking system, preventing withdrawable truck movement, closing of the earthing switch under live conditions, and closing of the earthing switch when the circuit breaker is in the closed position.
- Features a high-performance withdrawable vacuum circuit breaker, together with an advanced microcomputer-based relay protection and monitoring system.

KYN28-12kV Indoor Metal-Clad Withdrawable HV Switchgear

Product Description

- Indoor integrated distribution equipment for three-phase AC 50 Hz systems, designed for the reception and distribution of 3-10 kV power, providing circuit control, protection, and monitoring functions.
- Compliant with GB 3096, DL 404, IEC 298, and other relevant standards, and equipped with a complete five-prevention interlocking system.
- Widely used in power plants, industrial and mining distribution systems, substations, and high-voltage motor starting and control applications.

GCS/GCK/MNS Low Voltage Withdrawable Switchgear

Product Description

- Outstanding arc-resistant design with full type testing to ensure operator safety and reliable equipment operation.
- Advanced withdrawable structure enables replacement of faulty units without power interruption, ensuring high continuity and minimizing downtime losses.
- Mechanical and electrical components are designed to meet seismic, vibration, and impact resistance requirements.
- Maintenance-free busbar system and enclosure structure effectively extend service life.
- Compact modular design saves space and facilitates future upgrades and retrofitting.
- Flexible configurations include side outlet, rear outlet, and back-to-back arrangements.
- A wide range of digital and intelligent solutions are available to support smart power distribution systems.

Complete Products

ZGS/YB/YBF Series HV/LV Prefabricated Substations & Prefabricated Cabin Intelligent Substations



3D design, intelligent O&M, 20-year maintenance-free. Integrated power solution for urban grid & new energy.

A compact factory-assembled distribution unit integrating HV switchgear, a distribution transformer, and LV equipment. It combines transformer step-down and low-voltage distribution functions within a fully enclosed outdoor enclosure, providing protection against weather, corrosion, dust, fire, and theft, with an IP44 or higher protection rating.

It is an ideal solution for urban grid construction and renovation, serving as a modern alternative to conventional substations. It is widely used in mines, industrial plants, oil and gas fields, and wind farms, replacing traditional brick-and-mortar distribution stations.

Product Description

- Composed of three independent compartments (HV, transformer, and LV), with natural ventilation and equipped with dehumidification, explosion-proof, and anti-condensation measures.
- The HV compartment adopts a ring main unit, offering a compact, easy-to-install, reliable, and low-maintenance design with a full five-prevention interlocking system. The cabinet is made of cold-rolled steel or aluminum-zinc coated steel, providing corrosion, dust, and moisture resistance.
- The high-strength enclosure ensures corrosion-free performance for 20 years, with a design service life of ≥ 20 years, harmonized with the surrounding environment.
- Features a double-layer sloped roof with thermal insulation, a load-bearing capacity of $\geq 2500 \text{ N/m}^2$, waterproof design, and an overall protection rating of $\geq \text{IP44}$.
- Prefabricated cabin substation adopts a non-metallic or container-type enclosure with standardized design, factory customization, pre-commissioning, on-site assembly, and modular configuration.

Application Cases

- Energy Storage Project of Saudi Electricity Company
- Kindia Tunnel Project, Guinea
- Ulaanbaatar Energy Storage Power Station Project (Envision Energy), Mongolia
- Punta Valparaíso Port 3MW/6MWh Energy Storage Project, Chile
- Lao Potash Fertilizer Project of Asia-Pacific Potash International
- China's South-South Cooperation Program on Climate Change
- GUYSOL Solar-Storage Project, Guyana
- Grid-Side Energy Storage Pilot Project, Kazakhstan
- Olympic Sports Center Doping Control Center
- Beijing Lvqi Kechuang Technology Co., Ltd.
- Qingdao International Sailing Centre for the 29th Olympic Games
- Unit 96201
- No. 4822 Factory of the Chinese People's Liberation Army (PLA)
- Sinopec Wuhan Branch
- State Grid Smart Grid Research Institute
- Xinjiang Meihua Amino Acid Co., Ltd.
- Sinopec (Hong Kong) Hainan Petroleum Co., Ltd.
- China Railway 14th Bureau Group Co., Ltd.

Industry-specific
Marine & Offshore Platform Transformers

2,000+ Vessel Installations Worldwide
The Shipowner's Choice with Unrivaled Market Share
CCS / DNV & All Major Class Certifications
Certified as a Jiangsu Quality Product

CEEG is a leading marine transformer supplier based in China, offering a full range of marine dry-type transformers, shore power transformers, and offshore special transformers certified by major international classification societies.

Designed with anti-vibration, salt-fog resistance, moisture protection, low noise, and high reliability, the products are widely used in bulk carriers, container ships, LNG vessels, offshore platforms, and port shore power systems.

With nearly 2,000 installations on ships and offshore platforms worldwide, CEE has established long-term partnerships with leading global shipyards and port projects. Backed by mature technology, stable production capabilities, and full lifecycle service, we deliver safe and efficient power solutions for global marine and offshore engineering applications.



Marine Dry-Type Transformer

Offshore Dry-Type Transformer

Product Description

- High-grade silicon steel with step-lap core design, achieving low no-load loss.
- First in China to adopt Nomex paper insulation in marine and offshore transformers.
- Dual manufacturing processes available: VPI vacuum pressure impregnation and epoxy vacuum casting.
- Fasteners and conductors undergo special treatment to meet moisture, dust, and corrosion protection requirements.
- Integrated waterproof drainage channel, with protection class up to IP44.
- Air-water hybrid cooling system ensures strong overload capability.

Application Cases

- MSC 11400/8100 TEU LNG Container Vessel Transformers
- OOCL 4500/13208 TEU Vessel Transformers
- LDA Offshore Wind Service Vessel Project
- CSIC No.712 Research Institute
- Shanghai Zhenhua Heavy Industries Co., Ltd. (ZPMC)
- Nantong COSCO KHI Ship Engineering Co., Ltd. (NACKS)
- CNOOC Shenzhen Branch

Industry-specific
For Metallurgy, Chlor-Alkali, Electrochemistry,
Hydrogen Production and Papermaking



96-pulse Rectification & ms Voltage Regulation
(Industry-Leading). First-of-a-Kind Benchmarks.

- 220kV Oil-Immersed Rectifier Transformer
- Dry-type Rectifier Transformer
- Rectifier Transformer for Hydrogen
- Dry-type Rectifier Transformer for Hydrogen
- ZPSG Dry-type Rectifier VFD Transformer



CEEG focuses on industrial DC power supply with self-developed rectifier transformers, covering oil-immersed, dry-type and phase-shifting series. With low loss, low harmonics, high overload and strong short-circuit resistance, we provide customized DC solutions for metallurgy, chlor-alkali, hydrogen production, papermaking, cement, nuclear power and military industries. A core supplier of industrial DC power equipment.

As a technology pioneer, CEEG focuses on high-pulse, high-voltage and smart solutions. We offer efficient, intelligent and green products with 96-pulse design, 15% lower loss and millisecond regulation. Smart sensing and 5G enable self-diagnosis and early warning, supporting unmanned O&M and low-carbon development.

Product Description

Multi-pulse rectification & harmonic suppression

We are among the first manufacturers in China to introduce 96-pulse rectifier transformers (single 48-pulse unit configuration), leading in harmonic suppression technology.

High temp insulation & 7-level temp ctrl

Led the formulation of GB/Z 1094.14-2011, with insulation and temperature control performance reaching advanced industry levels.

Auto-transformer voltage regulation tech

Integrated autotransformer system with 20%-100% voltage regulation and $\pm 0.5\%$ control accuracy, featuring fast response, harmonic isolation, and safe, energy-efficient operation.

Double-split technology

Split winding design and optimized magnetic circuit, featuring high efficiency and strong adaptability for renewable energy applications.

customizable

Customizable core, winding, insulation (F/H class) and process (epoxy casting / vacuum impregnation).

Application Cases

- China's 1st 10,000-ton new energy hydrogen project: Narisong PV Hydrogen Project, Jungar Banner, Ordos
SPIC Jilin Da'an Wind-Solar Green Hydrogen & Synthetic Ammonia Project
China's 1st large wind-solar-storage-hydrogen coal chemical project: Datang Duolun Project
Wushen Banner Wind-Solar Green Hydrogen Project, Ordos
Sinopec Xinjiang Kuqa Green Hydrogen Project
Shenneng Korla Green Hydrogen Project (Xinjiang's 1st off-grid PV green hydrogen project)
Guangxi Jingui Pulp & Paper
Shandong Minghao Chemical Phase III Expansion
Shanneng Environmental Protection Electrolytic Zinc Expansion
Camoya Deep Ore Filling System Project
Morocco OCP 4×150,000 t/a Phosphoric Acid Concentration Project

Industry-specific
Mining



Pioneering cooling & insulation tech
World's 1st 3rd-gen mining dry-type transformer
Top mining custom solutions provider



Product Description

Flameproof & Intrinsically Safe Mobile Substation for Mining

KBSG2-T and KJSGZY2-T series are designed for hazardous mining & tunnel environments with gas and coal dust risks, ensuring safe and reliable power supply in explosive atmospheres.

- **Efficient cooling:** Corrugated flameproof enclosure for better strength & heat dissipation, longer service life
- **Digital control:** Digital protection system for real-time monitoring
- **Smart operation:** Multiple network ports + intrinsically safe barrier, enabling intelligent coal mining

3rd-gen with industry-leading cooling & insulation, greatly enhancing adaptability and reliability

KJGZY Flameproof & Intrinsically Safe HV Vacuum Switch for Mining

Designed for large underground mining operations with stringent safety and automation requirements.

- Featuring a multi-chamber flameproof structure, intelligent PLC control, a permanent magnet redundant drive system, a visible isolating switch, and comprehensive protection functions, the KJGZY switch delivers safe, reliable, and highly automated power distribution performance in demanding mining environments.

BXJ Flameproof & Intrinsically Safe LV Protection Box for Mining

Designed for underground mining environments with explosive gas and coal dust hazards, the BXJ protection box provides reliable protection, stable operation, and simplified maintenance.

- Featuring intelligent PLC control, a multi-chamber flameproof structure, and comprehensive monitoring functions, the BXJ box ensures enhanced safety, reliable performance, and easy maintenance in demanding mining environments.

Mining General-Type HV Switchgear

- **Innovative structure:** Steel or aluminum-zinc plated construction, corrosion-resistant, with compartmentalized design
- **High safety:** IP43 indoor enclosed, sealed with mechanical & electrical interlocks
- **Easy operation & maintenance:** Drawable trolley, convenient connection windows
- **Good interchangeability:** German advanced technology with mid-mounted trolley structure

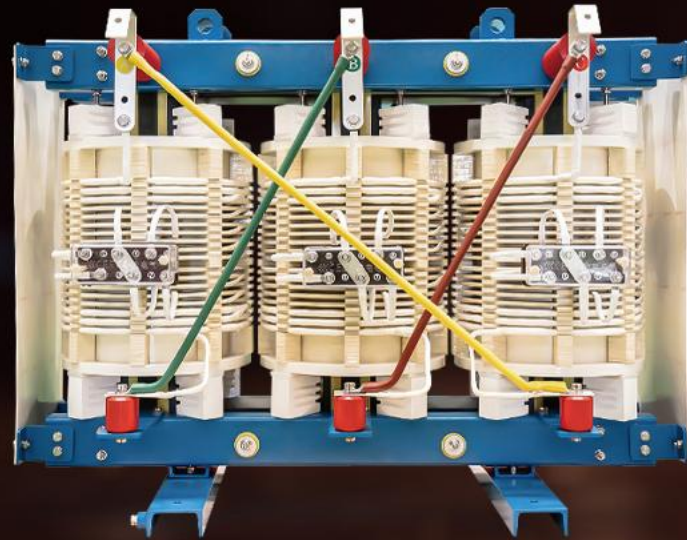
Mining General HV Switchgear

- **Compact & Robust:** Made of steel or aluminum-zinc coated plate, rigid and corrosion-resistant.
- **High Safety:** Indoor enclosed, IP42 protection, meets explosion-proof standards with enhanced sealing.
- **Easy Operation & Maintenance:** Busbar connection window for easy wiring; withdrawable trolley and removable cover for inspection and repair.
- **Flexible Configuration:** Multiple distribution schemes and circuit combinations to meet various needs.

Application Cases

Underground Coal Mine, Indonesia
Iron Ore Processing Plant, Algeria
Uranium Mine, Namibia
Copper-Cobalt Ore Mine, DRC
Potash & Magnesium Salt Mine, Laos
Masbate Gold Mine
Tampakan Gold Mine
China Shenhua Group
Henan Yongmei Group
Chongqing Energy Investment Group
Guizhou Shuicheng Mining Group
Henan Shenhua Group
Heilongjiang Longmay Mining Group
Sanyuan Coal Industry

Industry-specific Energy Storage



Leading Energy Storage Solution Provider
Efficient Integration Across All Scenarios
One of China's Leading Energy Storage Brands



Established in 2001, CEEG New Energy & Storage specializes in the R&D and manufacturing of energy storage systems and renewable energy equipment.

Its solutions serve a wide range of applications, including utility-scale energy storage plants, renewable energy integration, peak shaving, industrial and commercial energy storage, as well as grid-forming and grid-following systems. The company also provides advanced solutions for flywheel, molten salt, and compressed air energy storage applications.

Leveraging industry-leading technologies and extensive project experience, CEEG has delivered reliable solutions to hundreds of projects worldwide, supporting the global transition toward a cleaner and more sustainable energy future.

Product Description

Energy Storage Epoxy Dry Transformer

- Class H insulation system with Class F temperature rise for enhanced overload capability.
- No-load losses reduced by 20% and load losses reduced by 10% compared with international standards.
- Certified to F1/C2/E2 classifications, offering excellent flame-retardant performance and suitability for load-center applications.
- Operating noise is up to 10 dB lower than the industry average, with partial discharge levels below 5 pC.

Open Dry-Type Transformer for Energy Storage Applications

- Wide Temperature Range: Designed to operate reliably across a broad temperature range with excellent environmental adaptability.
- Excellent Heat Dissipation: Unencapsulated winding design enables efficient cooling and enhanced overload capability.
- Safe & Reliable: Flame-retardant construction, low operating noise, and stable performance.
- Intelligent O&M: Smart terminals and IoT cloud connectivity enable intelligent operation and maintenance.

Oil-Immersed Transformer for Energy Storage Applications

- Optimized Core Design: Elliptical core structure ensures excellent short-circuit strength, compact dimensions, and low stray losses.
- Corrosion Resistance: Complies with ISO 12944 anti-corrosion requirements.
- Low Partial Discharge: Partial discharge levels are ≤ 50 pC at 1.2Ur and ≤ 100 pC at 1.4Ur.
- Energy Storage Ready: Designed to withstand harmonic distortion, enhance thermal performance, and support future capacity expansion.

Liquid Cooling for Energy Storage Systems

- **Cost-saving & Flexible:** Pre-installed, 200kW scalable, PCS efficiency $>98.5\%$, $1.7\text{m}^2/\text{cabinet}$
- **Safety Protection:** Cell-level AI monitoring, overcurrent, compartmentalized + three-level fire protection
- **Intelligent Liquid Cooling:** Non-uniform channels, $\Delta T < 3^\circ\text{C}$, longer battery life
- **Digital O&M:** Local+cloud monitoring, remote scheduling, intelligent inspection
- **Modular Application:** Grid/off-grid switching, EMS to boost revenue

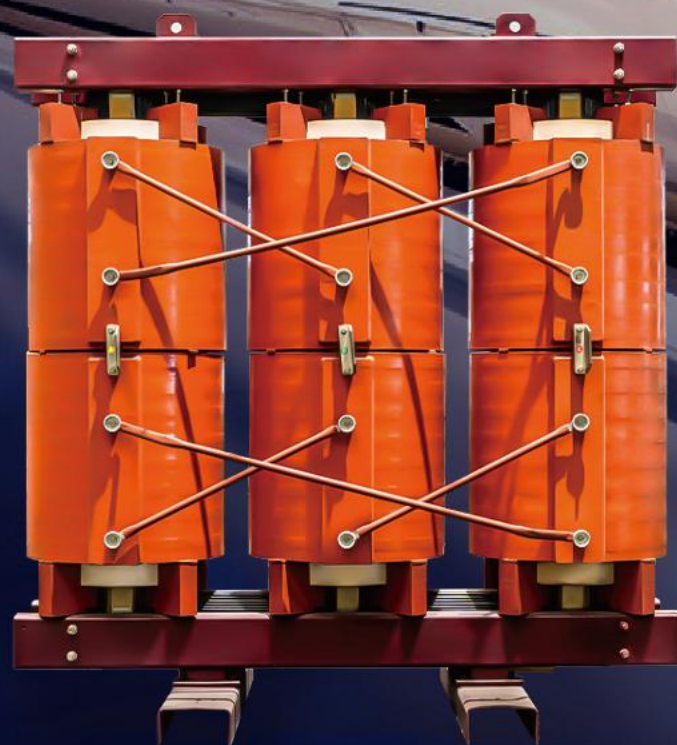
Air Cooling for Energy Storage Systems

- **Multiple Protection:** Zone isolation + 6 protection, wide temp, reliable
- **Intelligent & Profitable:** Multi-modes + smart EMS, PV & virtual power plant support
- **Cost-effective:** 280AH cell, 215kWh, zero parallel loss
- **Plug-and-Play:** All-in-one, modular expansion, pre-commissioned, seamless grid/off-grid

Application Cases

Ningxia Muhe 200MW/400MWh Energy Storage Power Station Project
Shandong Tancheng Energy Storage Power Station Project
Qinghai Golmud 100MW/200MWh Energy Storage Project
Xinjiang Lixin 37.5MW/150MWh Energy Storage Project
Xinjiang Mulei County Energy Storage Power Station Project
Inner Mongolia Huiteng Xile Wind Farm Project
Gansu Photovoltaic Power Generation Project
Inner Mongolia Photovoltaic Desert Control Project
Zhejiang Coastal Tidal Flat Photovoltaic Project
Hunan Energy Storage Demonstration Power Station Project
Hunan Yongzhou Energy Storage Power Station Project
Israel Energy Storage Project
Central African Republic 15MW Photovoltaic Power Generation & 5MWh Energy Storage Project

Industry-specific Rail Transit



Leading specialist in rail transit transformers, powered by industry-leading core technologies. Trusted supplier for heavy-haul railway projects in more than 20 cities.

Product Description

Traction Rectifier Transformer

- Low Temperature Rise: Excellent overload capability and reliable performance under Class VI load conditions.
- Optimized Electrical Performance: Balanced parameters ensure even load distribution and reduced non-characteristic harmonics.
- Advanced Coil Design: Axial double-split winding design ensures smooth and stable DC output.
- High Reliability: High mechanical strength, excellent moisture resistance, and partial discharge levels below 10 pC.
- Environmentally Friendly: Low operating noise and minimal electromagnetic emissions.

Special Autotransformer for Railway Traction AT Power Supply

- Optimized Winding Design: Ensures excellent short-circuit withstand capability, insulation performance, and heat dissipation.
- High-Efficiency Core: Robot-laminated core with a 45° seven-step step-lap joint design minimizes no-load losses.
- Robust Construction: Optimized positioning between the active part and tank enhances structural stability and operational reliability.
- Enhanced Mechanical Strength: Reinforced core structure provides excellent short-circuit withstand capability.

Application Cases

Jiangyin Second Yangtze River Crossing Project
Yuanhe Power Station Co., Ltd.
Beijing BECO Environmental Protection Co., Ltd.
Pinggao Group International Engineering Co., Ltd.
Suzhou Sinoma Construction Co., Ltd.
Wuxi Metro Group Co., Ltd., etc.
Beijing-Shijiazhuang-Wuhan High-Speed Railway
Tianjin-Qinhuangdao Line
Lanzhou-Xinjiang Line
Dunhuang-Golmud Line
Datong-Qinhuangdao Line
Guangzhou-Zhuhai Line
Chongqing-Fuling Line
Exports to Siba, EnBi, A.E. Distribution sh. p. k.



CEEG offers a comprehensive product portfolio for rail transit applications. Its proprietary on-board transformers serve as key equipment in mobile substations, while its autotransformers are designed for AT power supply systems in electrified railways. Featuring a proven design, low noise, low losses, excellent short-circuit withstand capability, and stable, reliable performance, CEEG products are widely trusted in rail transit applications.

04 SERVICE NETWORK

Asia | Africa | Oceania | Europe | North America | South America

With more than 400,000 transformers operating reliably worldwide, CEEG has established a strong global presence and earned the trust of customers across diverse industries.

Our portfolio includes transformers, photovoltaic modules, energy storage inverters, and integrated energy storage systems, serving customers in over 150 countries and regions throughout Europe, Australia, Southeast Asia, the Middle East, and Africa.

Driven by innovation and a commitment to sustainability, CEEG continues to deliver advanced energy solutions that support the global transition to a greener future.

