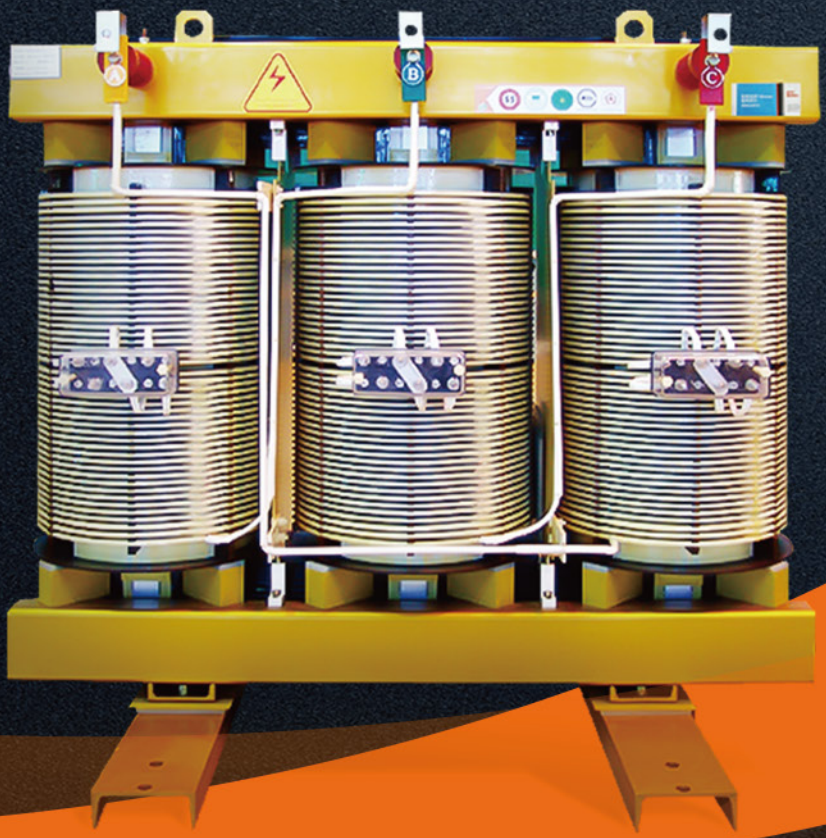
CEEG®

Deliver Premium Power to the World

VPI (Vacuum Pressure Impregnated) Dry Type Transformers

Safe | Reliable | Eco-friendly



DuPont™ Nomex®

Nomex® is a trademark or registered trademark of DuPont and its affiliates, used under license by China Electric Equipment (Jiangsu) Transformer Manufacture Co., Ltd.

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www.cnceeg.com

CEEG Overview

Tailored Solutions for Every Need

35+ industrial experience

2000+ employees

150+ countries with CEEG products

400,000+ transformers installed worldwide

Customize for You

CEEG offers flexible designs and extensive customization options.
We stay aligned with the world' s cutting-edge technologies and practices, ensuring our solutions keep pace with the future of the industry.
With a commitment to safety, energy efficiency, and environmental responsibility, we deliver reliable, sustainable, and cost-effective transformer solutions to customers worldwide.

Products

- Cast resin dry-type transformers
- Vacuum pressure impregnated (VPI) dry-type transformers
- Oil-filled transformers
- Prefabricated substations
- Dry-type and oil-filled rectifiers
- Marine transformers
- Variable frequency transformers
- Amorphous transformers
- Mobile transformers
- Harmonic mitigation transformers
- Explosion-proof mining transformers and substations
- ...

Transformers from 50 kVA up to 300 MVA, covering voltage levels up to 330 kV.

Qualifications

Certificates: UL, CE, CSA, and more.
Standards: IEC, ANSI/IEEE, EN, DIN, GB, and others.
Accredited Laboratories: CNAS, TÜV Rheinland, DEKRA.

Quality Management

CEEG is certified in accordance with:
- ISO 9001 (Quality Management)
- ISO 14001 (Environmental Management)
- ISO 45001 (Occupational Health & Safety)
- ISO 50001 (Energy Management)

Introduction

CEEG is one of the largest manufacturers of VPI dry-type transformers in China.

In 1999, CEEG pioneered the application of DuPont NOMEX® insulation paper in dry-type transformers and successfully developed its first VPI product line. Its key performance indicators reached the advanced international level, making it a flagship product of CEEG. **In 2001, CEEG and DuPont** signed a strategic partnership agreement, which has remained strong to this day.



1999 DuPont & CEEG Reliatran Transformer Technical Conference



2004 CEEG Received Award in DuPont USA Headquarter



2009 Lu Tingxiu(President of CEEG)Received Award from CharlesO.Holliday(President & CEO of DuPont)



2010 DuPont&CEEG Nomex Trademark Licensing Agreement



2013 DuPont Chairman and CEO Ellen j, Kullman Visited CEEG



Nomex® Insulated Transformer – New Product Launch at SNEC PV+ Expo 2023





With excellent insulation performance, **CEEG VPI transformers** passed the **KEMA E2, C2**, and F1 tests in **2004**.

We also designed and produced the first Class C insulated VPI dry-type transformers in China, certified by CSA, which were supplied to Rio Tinto and earned the "Most Innovative Supplier Award" in Rio Tinto's 2012 procurement for emerging markets.

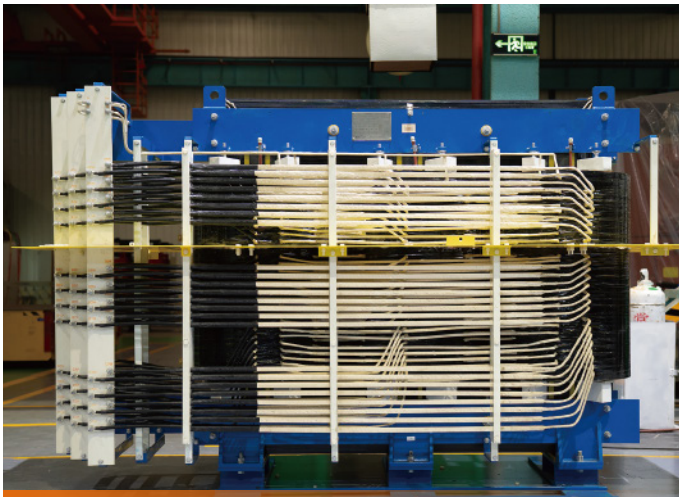


After years of successful exports to Canada, our VPI transformers obtained UL certification, paving the way for broader applications in the United States, including construction, mining, data centers, and other industrial sectors.

We have also expanded our product portfolio to include variable frequency phase-shifting transformer rectifiers, marine VPI transformers, amorphous alloy VPI transformers, and VPI transformers for energy storage, which have been exported to multiple countries worldwide, highlighting the proven reliability and adaptability of CEEG's VPI transformer technology.



Outdoor VPI Transformers for America



Variable Frequency Phase-Shifting Transformer Rectifiers for ABB



VPI Transformers for Saudi Aramco



Marine Transformers for ABB



VPI Transformers for a data center in America



Compact Substations for America

Why Choose CEEG VPI Dry-Type Transformers?

- Insulation class up to C (220°C): Both main and auxiliary insulation use Class C materials.
- A trusted DuPont partner in insulation materials since 1999.
- Energy efficiency up to 99.26%.
- Environmentally friendly: fully recyclable and free from harmful emissions.
- Non-flammable and self-extinguishing.
- Excellent overload and short-circuit resistance: can operate at 120% load without fans; with fan cooling, short-time overload capacity exceeds 150%.
- Cabinet certified to AWS requirements, with load-bearing strength, heat dissipation, and rainproof performance compliant with NEMA 3R standards.

Scope of Supply

Parameter	Specification
Voltage Range	6 kV up to 24kV
Rated Capacity	Up to 30 MVA
Frequency	50 / 60 Hz
Impedance	4-6%
Cooling Methods	AN/AF/AFWF
Vector Groups	Dyn11 / Yyn0 / others on request
Core	Cold-rolled, grain-oriented silicon steel with step-lap joints
Insulation Temperature	180℃, 220℃
Environment-Climate-Fire Class	F1, E2, C2 (KEMA)
Working Temperature	- 25℃ ~ 45℃
Relative humidity	≤ 95%
Enclosure Options	NEMA 3R and others

Application Scenarios

Public Facilities

Ideal for shopping malls, residential complexes, schools, hospitals, and entertainment venues where safety is paramount.

CEEG VPI transformers emit no toxic gases even at 750°C, and maintain over 92% smoke visibility, ensuring clear evacuation routes during emergencies.

High-Load Industries

Suitable for metallurgy, petrochemical, energy sectors, and data centers characterized by high power consumption, frequent overload, and uneven load conditions.

Harsh Environments

Designed for coal mines, nuclear plants, cement factories, and other sites exposed to dust, radiation, or severe conditions.

The segmented disc structure minimizes dust accumulation, while the strict VPI process ensures excellent resistance to contamination.

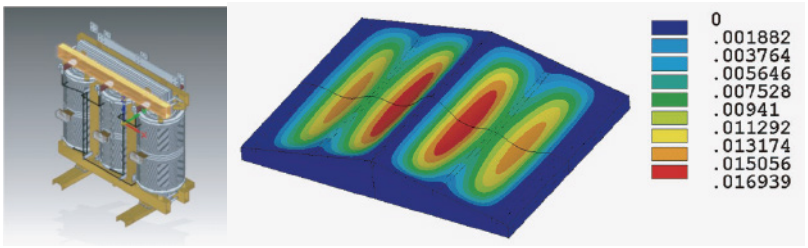
Coastal and Corrosive Areas

Reliable operation in environments with high humidity, salt spray, and corrosion, such as ports, docks, and coastal regions.

Process Excellence

Product Design

With over 30 years of experience in transformer design, manufacturing, and testing, CEEG has developed advanced "3D + Parametric" design software. This system enables automated design, cost optimization, and simulation analysis. This provides a strong foundation for precise product design and consistent performance.

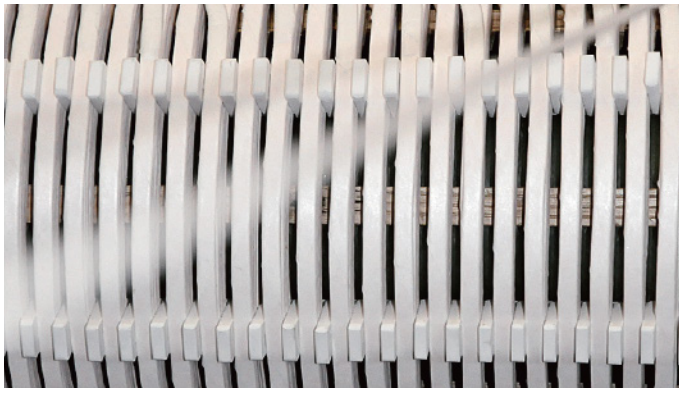


Semi-Finished High-Voltage Coil

The high-voltage coil adopts a continuous structure with high mechanical strength and excellent heat dissipation, effectively overcoming the disadvantages of traditional multilayer coils such as excessive interlayer voltage, poor thermal dissipation, thermal breakdown, and weak mechanical integrity.

It maintains exceptional structural stability without cracking, and partial discharge remains below 5 pC, ensuring superior product reliability and long service life.





Semi-Finished Low-Voltage Coil

The low-voltage coil is constructed from high-conductivity foil or longitudinally oriented spiral windings, fully impregnated under VPI (Vacuum Pressure Impregnation) to form a dense, solid structure.

This design provides outstanding short-circuit strength and excellent resistance to shock, moisture, dust, and salt fog, ensuring stable operation even in harsh environments.



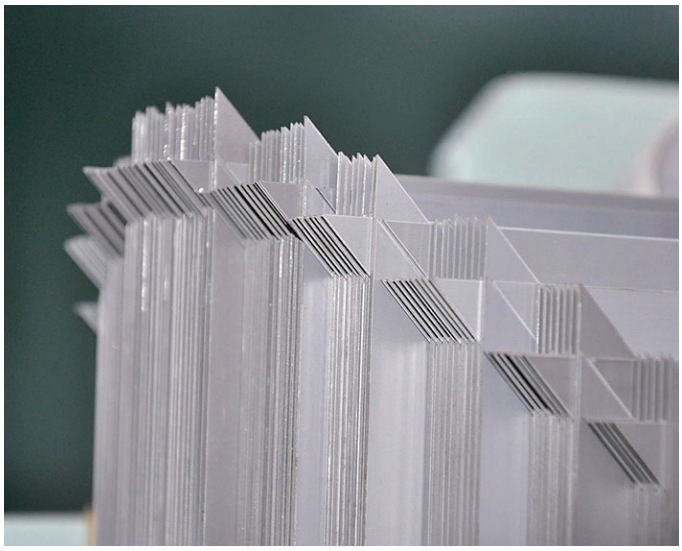


Iron Core

The core is made of high-grade, grain-oriented silicon steel with a 45°full miter step-lap construction, offering optimal magnetic performance.

Each lamination is coated with a special moisture- and rust-resistant insulation, which effectively reduces no-load loss, no-load current, and operational noise, improving overall efficiency and durability.





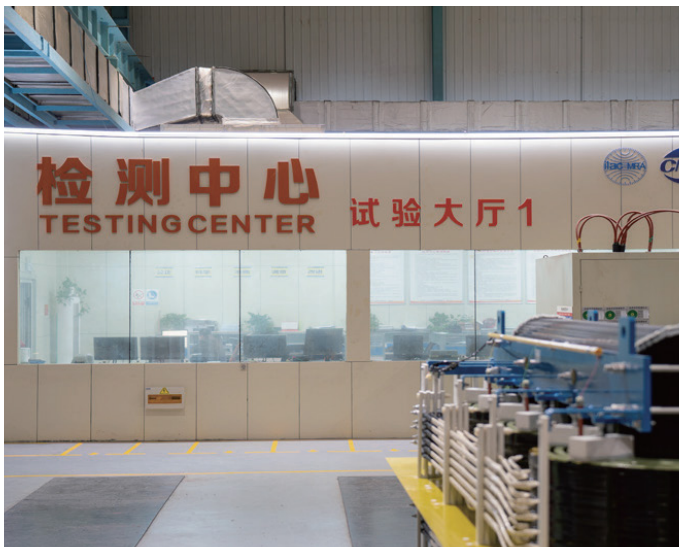
Advanced Testing Capabilities

CEEG carries out comprehensive routine and type tests in accordance with IEC and international standards, including:

- No-load and load loss measurement
- Winding resistance and impedance voltage tests
- Temperature rise and partial discharge tests
- Lightning impulse and applied voltage withstand tests

Selected special tests are also conducted based on customer or project requirements, ensuring every transformer meets the highest reliability and performance expectations.





Marine Transformers

CEEG is one of China's pioneers in water-cooled marine transformer technology and serves as a strategic supplier to leading global marine electrical equipment manufacturers.

Designed to withstand high salinity, humidity, mechanical stress, and vibration throughout the product lifecycle, our marine transformers provide stable and efficient performance in harsh offshore environments.

Key Features:

- Suitable for ships, drilling platforms, and other offshore applications
- Available in AN / AF / AFWF cooling designs
- Cast resin structure for voltages >1 kV; VPI structure for voltages <1 kV
- TW32-4 silicone paint coating for resistance to water, salt spray, mold, and dust
- Enclosure, body, and base rigidly integrated for superior vibration resistance
- High reliability minimizes maintenance costs in remote marine environments
- Certified by multiple classification societies, including CCS, ABS, BV, DNVGL, LR, KR, NK, and RINA





Data

Model: SG(B)14 100-2500/10HV: 10 (10.5,11,6.6,6.3,6)kV
Vector Group: Dyn11, Yyn0
LV: 0.4kV
Tapping Range: ±2×2.5%

Power (kVA)	Uk (%)	P_0 (W)	Pk (75°C) (W)	I_0 (%)	Lpa (dB(A))	Main Body Dimensions LxBxH(mm)	Top outlet enclosure dimensions (including base)	Side outlet enclosure dimensions (including base)
100	4	270	1240	0.7	42	980×750×840	1700×1400×1600	1700×1400×2200
125	4	320	1450	0.7	42	980×750×840	1700×1400×1600	1700×1400×2200
160	4	360	1670	0.7	42	1050×750×890	1700×1400×1600	1700×1400×2200
200	4	420	1990	0.7	43	1070×750×890	1700×1400×1600	1700×1400×2200
250	4	490	2170	0.7	43	1090×860×940	1700×1400×1600	1700×1400×2200
315	4	600	2730	0.7	45	1120×860×1030	1700×1400×1600	1700×1400×2200
400	4	660	3140	0.7	45	1140×860×1050	1700×1400×1600	1700×1400×2200
500	4	790	3830	0.6	46	1230×860×1060	1700×1400×1600	1700×1400×2200
630	4	910	4610	0.6	46	1300×860×1080	1900×1500×1800	1900×1500×2200
630	6	880	4690	0.6	46	1360×860×1050	1900×1500×1800	1900×1500×2200
800	6	1030	5470	0.4	49	1420×1020×1130	1900×1500×1800	1900×1500×2200
1000	6	1200	6430	0.4	50	1420×1020×1200	1900×1500×1800	1900×1500×2200
1250	6	1420	7610	0.4	51	1420×1020×1290	2000×1600×2000	2000×1600×2200
1600	6	1660	9230	0.3	51	1520×1150×1390	2000×1600×2000	2000×1600×2200
2000	6	2070	11420	0.3	52	1550×1150×1460	2200×1600×2200	2200×1600×2200
2500	6	2450	13540	0.3	53	1570×1150×1580	2200×1600×2200	2200×1600×2200

Note: The data is for reference only. Actual parameters may vary depending on specific project requirements.

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Get in Touch

Online, quick, and easy — scan the QR code to send your inquiry now.

If you're ready to discuss the details of your project, our team is ready to assist you. Simply complete the online form, and a CEEG representative will reach out to you shortly — it's the fastest way to get the information and quotation you need to move your project forward.

Contact us

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