



**PRODUCT MANUAL** version 2024-11EN

# **SINGLE PHASE PAD MOUNTED TRANSFORMER**

\*ANSI/IEEE-C57.12.00;C57.12.34  
CSA-C227.4



## **HENGFENGYOU ELECTRIC GROUP**

Smart Electric Global Service provider  
Make life better!

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## ABOUT

# HENGFENGYOU ELECTRIC GROUP

HENGFENGYOU ELECTRIC GROUP, is an electrical enterprise with transmission and distribution industry as its main business, integrating product research and development, manufacturing and trade. Designated suppliers for the world's top 500 enterprises .Its main products include power transformers, medium and low voltage switchgear, distribution panel ,circuit breakers, transmission tower ,Cable and other power distribution equipment .The group has five department: Transformer department, Panel department, power transmission tower department, cable department and electrical engineering department. HENGFENGYOU ELECTRIC GROUP has been working hard to provide the best transmission, distribution solutions for users all over the world.

## Key figures

- Since: 1990
- Revenue in 2018: 635 million (RMB)
- 550 employees and 30 Electrical Engineers
- 6 production sites in China
- 6% of revenue is invested in R &D

## Power distribution solutions that drive the global energy transition

With energy demand expanding in both developed and emerging countries, the challenge for HENGFENGYOU ELECTRIC GROUP is to connect energy with people. The group's teams work as closely as possible with projects and decision makers and design and propose technical and process solutions based on global user needs.



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### • Business area

HENGFENGYOU ELECTRIC GROUP designs, manufactures and sells global solutions and equipment for public utilities and private medium and low voltage distribution networks.

Hengfengyou Electric Group's business area is global power distribution equipment demand, fully meet the different power distribution equipment demand of more than 50 countries around the world.

### • Grow business with Hengfengyou

Our goal is to become the world's leading manufacturer of electrical equipment. The business, experience and technology accumulated over the years have benefited customers in more than 50 countries around the world. Once our customers establish a cooperative relationship, they are long-term trusted customers, because HENGFENGYOU ELECTRIC GROUP always insists on providing you with our best electrical products and services.

### • The team energy

The HENGFENGYOU ELECTRIC team achieves synergy within the team to develop and produce specific solutions that meet all customer needs.

Our equipment is designed and researched by R&D services according to each country's electrical standards and helps manage your distribution network for optimal efficiency.

HENGFENGYOU's state-of-the-art production workshop and production equipment will produce high quality products according to your specifications.

HENGFENGYOU ELECTRIC GROUP has a certified quality control laboratory where electrical products are tested out of factory to ensure the reliability and optimal life of our products.

### • Innovative development

For more than 30 years, HENGFENGYOU ELECTRIC GROUP has been designing innovative power distribution solutions to improve network security, optimize facility efficiency and become more environmentally friendly.

Every year, HENGFENGYOU ELECTRIC GROUP spends 6% of its revenue on research and development and innovation of energy saving development of distribution transformers; Intellectualization of distribution boards and substations; Research, development and improvement of transmission tower and cable materials. The R&D division has more than 30 engineers and technicians dedicated to designing and deploying new electrical solutions. Continuously meet the global demand for energy saving and intelligent electrical.

Qingdao International academician port Qingdao MINGSI is introduced as the strategic partner of Technology Co., Ltd. to provide smart power consumption solutions for global users. Through the intelligent monitoring of the Internet of things system, it can realize the remote monitoring, early warning, control and management of enterprise power transmission and distribution equipment and power consumption equipment, and finally achieve the goal of reducing fire accidents, reducing operating costs, and improving enterprise management efficiency.

### Qingdao Hengfengyou Electrical Engineering Co., Ltd

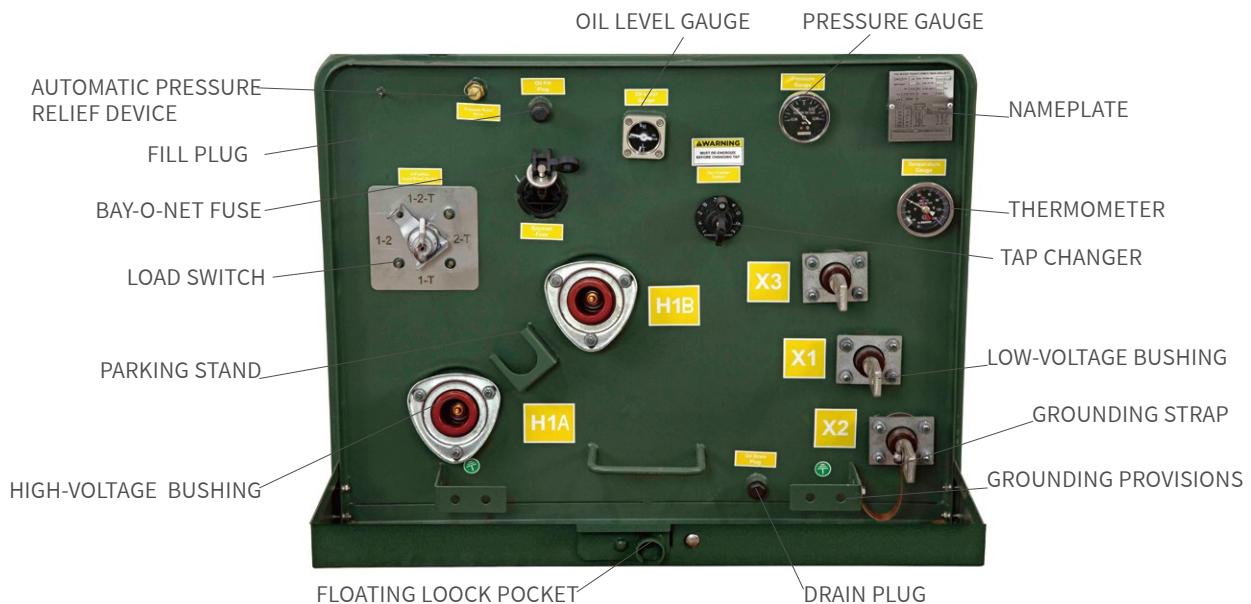
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# PRODUCT OVERVIEW

- Compliant with International Standards: This transformer meets the IEEE standard, ensuring compliance with global electrical safety and efficiency requirements.
- High Voltage Capacity: Available in various voltage inputs (4160V, 7200V, 12000V, 12470V, 13200V, 13800V, 19920V, 24940V, 34500V) and outputs (110V, 220V, 230V, 400V, 480V), catering to diverse power supply needs.
- Durable and Efficient: Constructed with high-quality aluminum or copper winding material and a reliable onan cooling method, ensuring optimal performance and longevity.
- Versatile Application: Designed for single-phase power supply, this transformer is ideal for various applications, including commercial, industrial, and residential use.
- Certified Quality: ISO/UL certified, guaranteeing the highest level of quality and safety standards, as mentioned by the user.



\*Single-phase pad-mounted compartmental type transformer structure

# TECHNICAL PARAMETERS

Single phase Pad mounted Transformer Specification

-Meets/Exceeds DOE2016 Efficiency

Rating (kva)	High voltage (kva)	No Load Loss	On Load Loss	Height (mm)	Depth (mm)	Width (mm)	Oil Weight (kg)	Total Weight (kg)
15	34.5/19.92 13.8/8 13.2/7.6 12.47/7.2 or others	50	195	840	740	610	45	294
25		80	290	840	740	610	68	362
37.5		106	360	840	760	610	75	476
50		135	500	840	810	610	93	553
75		190	650	840	860	610	132	672
100		280	1010	910	1200	965	230	714
167		435	1530	1000	1200	965	265	913
250		550	2230	1250	1200	1430	325	1106

\*\*Complies with ANSI/IEEE-C57.12.00;C57.12.34 CSA-C227.4



# © PRODUCT ADVANTAGE

## > Leading technology

- Fully enclosed, fully insulated structure, safe and reliable operation
- Low loss, low noise, low temperature rise, strong load capacity over fixed capacity, strong resistance to sudden short circuit
- Flexible wiring mode, can be used for terminal system, also can be used for ring network system, convenient conversion, improve the power supply reliability
- Easy to operate, maintenance-free, low equipment cost

## > Enclosure

- Made of cold rolled high quality hot dip galvanized sheet (Or 304 stainless steel)
- The surface is treated by electrostatic spray, and the paint can not be taken off for 50 years
- Laser numerical control equipment cutting, drilling, bending, to ensure the processing accuracy
- The transformer is a low loss oil-immersed transformer produced by Hengfeng You Electric
- Enclosure Rating: NEMA 3R Weatherproof Wiring Cabinet, Sealed Tank.

## > Processing and assembly

- Assembly workers have been trained for at least 6 months
- Secondary wiring is fully automatic equipment cutting to ensure reliable wiring
- Use power tools to ensure proper torque for bolting reinforcement
- The copper bus is CNC punching and bending
- All kinds of experimental tests before leaving the factory to ensure normal operation



# ◎ QUALITY CONTROL

- HENGFENGYOU has formulated strict workflow and ISO standards to ensure to provide customers with first-class Single phase Pad mounted Transformer and the best service.
- The HENGFENGYOU team works collaboratively within the team to develop and produce, Single phase Pad mounted Transformer solutions that meet all customer needs.
- Our products are designed and studied by R & D services according to the electrical standards of each country and help manage your distribution network for optimal efficiency.



### 01

#### General inspection

- 1.1 appearance inspection
- 1.2 circuit connection inspection
- 1.3 electrical clearance



### 02

#### Mechanical characteristic test

- 2.1 mechanical operation of switch:
- 2.2 the detection of transformer temperature and liquid level is convenient and correct.
- 2.3 the fuse is easy to replace.



### 03

#### TESTS

- Winding Resistance Test
- Insulation Resistance Test
- Voltage Ratio Error Test
- Short-circuit Impedance Test
- No-load Loss (Wattage) Test
- Load Loss (Wattage) Test
- Induced Voltage Withstand Test
- Separate Source Voltage Withstand Test
- Pressure Integrity Test Test



# OUR FACTORY

CUSTOMER-ORIENTED CREATE VALUE FOR CUSTOMERS MAKEFRIENDS ALL OVER THE WORLD



## ▲ FACTORY DISPLAY

Hengfengyou Electric has 22000 square meters of modern plant, with a monthly delivery capacity of up to 500 Single phase Pad Mounted Transformer, and has fully passed the ISO9001, ISO14001, SA8000, BSCI and other market access standards reviewed and issued by international certification bodies. At present, the company has 10 senior engineers, 30 senior technicians and more than 300 employees, with an annual output value of US \$100 million

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## OUR FACTORY





## CASE

Hengfengyou Electric Group has always been committed to providing the best quality Single phase Pad Mounted Transformer products for global customers



7.2kV/167kva Single phase pad mounted transformer exported



## Case show

make life better



# © CERTIFICATE



# © OUR PARTNER

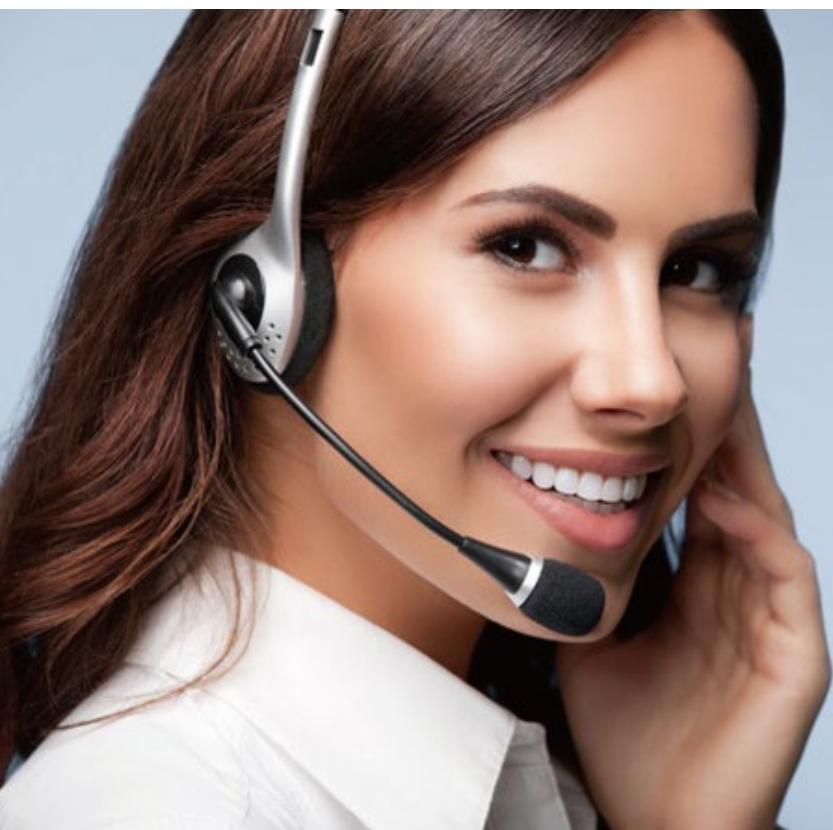


## ④ PRE-SALE SERVICE:

- 1.ISO certified excellent Manufacturer
2. Third-party authoritative certifications: CE, CB,UL, CSA etc
3. Flexible payment: T/T, LC,
4. Sufficient inventory, fast delivery time and long validity of the price
5. The whole process of picture tracking can be realized in production and transportation
6. Experienced professional sales team and a strong technical team
7. Sincerely invite customers to visit the company for guidance

## ④ AFTER-SALES SERVICE:

1. If there is any quality problem after receiving the goods, you can return the goods free of charge or ship new products
2. We provide our customers with a 1-year product warranty
3. Provide 24-hour, 365-day technical guidance worldwide
4. The VIP customers enjoy our promotional activity  
trained by management consultants, is able to provide professional solutions for customers.
4. Our technical team is ready for 24-hour technical support worldwide.
5. Our customer service team ensures on time delivery.



Call Us For Details



智能电气全球服务提供商,让生活更美好

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