



1000 Kva Trafo

Model:	1000 Kva
OEM and ODM Services:	Available
Enclosure:	PINEELE standard
Brand:	PINEELE, a Brand Under ZHENGXI
Form:	All- packaged Type
Scope of Application:	Suitable for industrial power distribution, voltage stabilization, and transformer protection. Widely used in commercial buildings, manufacturing plants, and utility substations.
Reviewed By:	Zheng Ji, Senior Electrical Engineer at PINEELE 18+ years of experience in HV switchgear design & testing.
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Table of Contents

- Understanding the 1000 kVA Transformer
- Applications of 1000 kVA Transformers
- Market Trends and Developments
- Technical Specifications and Comparisons
- Differences from Similar Products
- Purchasing Guidance



Frequently Asked Questions (FAQ)





Understanding the 1000 kVA Transformer

A 1000 kVA (kilovolt-ampere) transformer is a device that transfers electrical energy between two or more circuits through electromagnetic induction. The 1000 kVA rating indicates the transformer's apparent power capacity, making it suitable for medium to large-scale power distribution. These transformers can be either oil-immersed or dry-type, each with specific advantages depending on the application.

Applications of 1000 kVA Transformers

1000 kVA transformers are versatile and find applications across various sectors: L/C Magnetics+11Daelim Transformer+11ELSCO+11

- **Industrial Facilities:** Used to power heavy machinery and equipment.
- **Commercial Buildings:** Provide reliable power distribution for large office complexes and shopping centers.
- **Hospitals and Data Centers:** Ensure uninterrupted power supply critical for operations.
- **Renewable Energy Projects:** Integrate with solar and wind power systems to step up or step down voltages.
- **Utilities:** Serve as distribution transformers in electrical grids.

Market Trends and Developments

The demand for 1000 kVA transformers is influenced by several factors:

- **Growth in Renewable Energy:** As renewable energy sources expand, the need for efficient transformers increases.
- **Urbanization:** Rising urban development requires robust power distribution systems.
- **Technological Advancements:** Innovations in transformer design enhance efficiency and reduce losses.

According to industry reports, the global transformer market is projected to grow steadily, driven by these factors.

Technical Specifications and Comparisons

Key technical parameters of a typical 1000 kVA transformer include:

- **Rated Power:** 1000 kVA
- **Primary Voltage:** Varies (e.g., 11 kV, 13.8 kV)
- **Secondary Voltage:** Varies (e.g., 415 V, 480 V)
- **Cooling Method:** Oil-immersed (ONAN) or dry-type (air-cooled)



- **Frequency:** 50/60 Hz

- **Insulation Class:** Typically Class F or H

When comparing oil-immersed and dry-type transformers:

- **Oil-Immersed Transformers:** Offer better cooling and are generally more efficient but require more maintenance.
- **Dry-Type Transformers:** Safer for indoor use and require less maintenance but may have higher losses.

Differences from Similar Products

Compared to lower-rated transformers (e.g., 500 kVA), a 1000 kVA transformer can handle higher loads, making it suitable for larger applications. Higher-rated transformers (e.g., 1500 kVA) offer more capacity but come with increased size and cost. The choice depends on the specific power requirements of the application.

Purchasing Guidance

When selecting a 1000 kVA transformer, consider the following:

- **Load Requirements:** Ensure the transformer meets the power demands of your application.
- **Voltage Specifications:** Match the primary and secondary voltages to your system.
- **Cooling Method:** Choose between oil-immersed and dry-type based on installation environment and maintenance capabilities.
- **Compliance Standards:** Verify that the transformer meets relevant standards (e.g., IEEE, IEC).
- **Manufacturer Reputation:** Opt for reputable manufacturers known for quality and reliability.

Frequently Asked Questions (FAQ)

Q1: Can a 1000 kVA transformer handle a 1000 kW load?

A1: Not exactly. A 1000 kVA transformer can handle a 1000 kW load only if the power factor is 1.0. In practice, power factors are usually less than 1, so a transformer with a higher kVA rating may be necessary.

Q2: What is the typical lifespan of a 1000 kVA transformer?

A2: With proper maintenance, a 1000 kVA transformer can last 20-30 years or more. Factors such as operating conditions and maintenance practices influence lifespan.

Q3: Are dry-type transformers more safer than oil-immersed ones?

A3: Dry-type transformers are generally considered safer for indoor installations due to the absence of flammable oil, reducing fire risk. However, both types have safety measures and are suitable when properly applied.

In conclusion, a 1000 kVA transformer is a vital component for various power distribution needs. Understanding its specifications, applications, and market trends helps in making informed decisions for procurement and deployment.

Related products



Dry Type Transformer



3-Phase Transformer



1 kVA 3 Phase Transformer Price



10 kV Transformer



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