



SG POWER

TRANSFORMERS

The care your engineering deserves



About us

“SG Power Products Private Limited Transformers and Servo is a leading manufacturer of transformers and servo systems based in Noida, Uttar Pradesh, India. The Company specializes in producing a wide range of products, including Distribution Transformers, Electroplating Rectifiers, Servo Voltage Stabilizers, Dry-Type Transformers, Furnace Transformers, Colouring Transformers, Step-Down Transformers, Special Purpose Power Transformers, and.

To maintain the highest standards of quality, SGPL operates a fully equipped in-house laboratory that complies with both national and international standards. All products are manufactured in accordance with Indian Standards, ensuring reliability, performance, and customer satisfaction.”

Started in 2012, SG Power Products Private Limited in an ISO 9001:2015 Company, located in Noida, India

“SGPL derives its strength from its customers. The Company believes that the growth of its customers is essential to its own success; therefore, customer satisfaction remains its foremost objective.”



SALIENT FEATURES

(25 kVA to 500 kVA Transformers)

- **High Efficiency**
 - Meets 4-Star / 5-Star energy performance requirements
 - Low no-load & copper losses as per IS:1180
- **Low Audible Noise**
 - Step-lap core reduces vibration & sound level
- **High Short-Circuit Strength**
 - Strong mechanical bracing
 - Controlled axial & radial forces
- **Superior Insulation System**
 - High dielectric Kraft + pressboard
 - Oil ducts designed for natural cooling (ONAN)
- **Long Service Life**
 - High BDV oil
 - Moisture-resistant insulation
 - Anti-corrosion painting
- **Flexible Tap Range**
 - $\pm 5\%$ or $\pm 7.5\%$
 - OLTC available on demand
- **Designed for Indian Conditions**
 - Ambient 50°C
 - Humidity 100%
 - Tropicalized protection

- **Voltage**
 - HV: 11 kV / 22 kV / 33 kV
 - LV: 415 V / 433 V
- **Frequency**
 - 50 Hz
- **Vector Group**
 - Dyn11 (standard)
- **Cooling**
 - ONAN (Oil Natural Air Natural)

- **Impedance (typical)**

Rating	Impedance
25–63 kVA	4%
100–250 kVA	4.75%
315–500 kVA	5%

- **Temperature Rise**

- Oil: 35°C
- Winding: 45°C

- **Insulation Level**

- HV: 95 kV BIL (11 kV system)
- LV: 3 kV (1.1 kV system)

- **Efficiency**

Rating	Efficiency
25–100 kVA	98–98.5%
160–500 kVA	98.5–99%



Why Choose Us?

“SGPL helps customers overcome operational challenges by delivering robust and reliable transformer solutions, engineered using high-quality components and materials. Our products are designed with a deep understanding of end-user capabilities, tools, and processes, ensuring optimal performance and long-term value.

Our brand is synonymous with sustainability, efficiency, and the growth of electrical systems. The following key features set us apart:

- Our designs are based on the principles of electromagnetic induction and strictly comply with safety regulations.
- Our products are engineered to reduce power losses and minimize noise levels, enhancing overall performance.
- We adhere to international standards and continuously update our products in line with the latest industry trends and practices.
- Advanced design techniques ensure durability and low maintenance requirements.
- Computerized design tools and precise blueprints enable maximum accuracy in product development.
- Our skilled after-sales service team is dedicated to ensuring complete customer satisfaction.

We offer our products at highly competitive prices in line with market trends. Our core objective is to deliver reliable, high-quality instruments at the most economical cost.”

OUR PRODUCTS & SERVICES

▪ Distribution Transformers

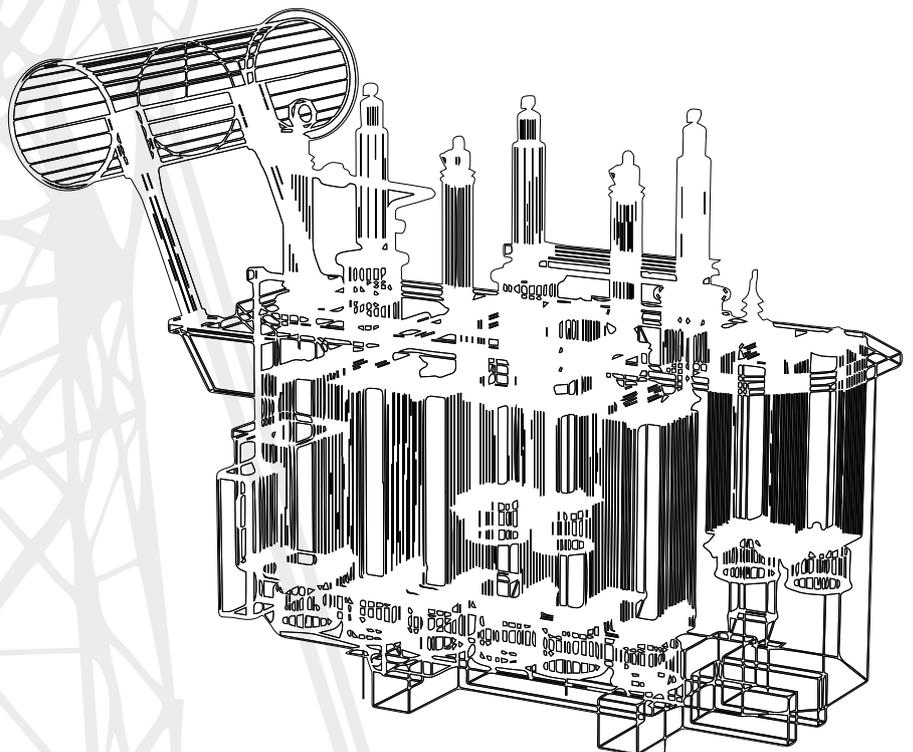
▪ HT-AVR Transformers

▪ Dry Type Transformers

▪ Furnace Transformers

▪ Colouring Transformers

▪ Step Down Transformers



Distribution TRANSFORMER

Distribution transformers are critical components of electrical power distribution systems. They are designed to step down high voltage from transmission networks to lower voltage levels suitable for safe and efficient use in residential, commercial, and industrial applications.

Key Specifications:

- Voltage Rating from 25 KVA to 500 KVA depending on the specific application.
- KVA Rating Varies from a few KVA to several MVA
- Cooling Type: Oil-cooled, air-cooled, or dry-type
- It comes in Three-phase
- Impedance: Affects voltage regulation and short-circuit currents
- Efficiency: Reflects energy conversion effectiveness



Why Choose SGP Transformers?

- Experienced team
- Advanced testing and repair facilities
- Customer satisfaction-focused
- Competitive pricing and reliable service

Applications:

- Residential: Powers homes and small businesses
- Commercial: Powers shops, offices, and facilities
- Industrial: Powers machinery and equipment
- Rural: Extends power to remote areas

Services Offered by

- Sales: Wide selection of quality transformers and expert guidance
- AMCs to custom maintenance plans with priority response
- Testing/Commissioning to ensures compliance and safe operation



HT-AVR TRANSFORMERS

SGP HT-AVR Transformers are designed for both indoor and outdoor installation. These copper-wound HT Two-In-One systems revolutionize voltage regulation and stabilization. As the name suggests, they stabilize the voltage on 11KV, 22KV, or 33KV before the distribution transformer.

The fluctuating HT voltage from the electricity supply is stabilized with an accuracy of +1%, ensuring a stable LT output within +1% accuracy. Contrary to common belief, stabilizing HT voltage is not dangerous and doesn't require highly skilled technicians for maintenance.

Key Features:

- **Reliable Performance:** Ensures consistent voltage regulation.
- **High Efficiency & Safety:** Minimizes energy loss and enhances safety.
- **Strong & Compact:** Durable, space-saving design.
- **Low Cost:** Cost-effective and easy to maintain.
- **Reduced Power Losses:** Optimized for efficiency.
- **Weather Resistance:** Ideal for all environmental conditions.



DRY TYPE TRANSFORMERS

SGP Ventilated Dry Type Transformers are maintenance-free and fire-safe, using materials like metals, ceramics, fiberglass, and resin. They are environmentally friendly with no oil, making handling easier and eliminating risks of spillages or leaks. In case of fire, they produce minimal non-toxic smoke.

We offer these transformers with Class H/E insulation, capable of withstanding temperatures up to 180/220°C, and they perform well in humid and chemically polluted environments. To meet the needs of the Indian industry, we also provide Cast Resin Dry Type Transformers alongside our existing Vacuum Resin Impregnated Dry Type Transformers.

Key Features:

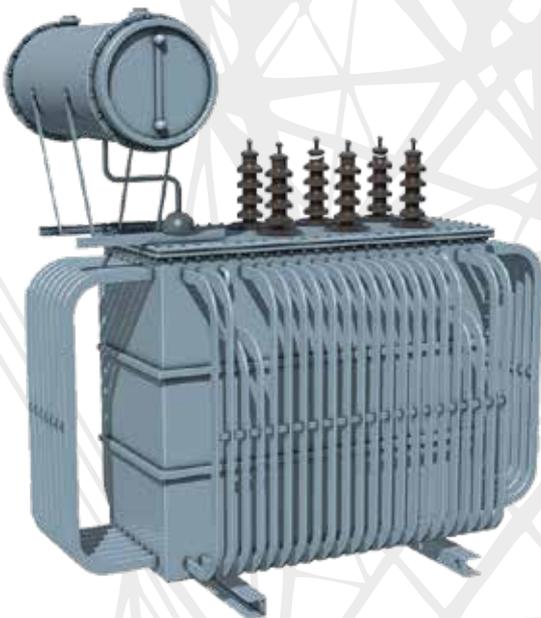
Available from 25 KVA to 500 KVA, 11 KV and 33 KV class, suitable for indoor applications. Off-circuit and on-load tap changer switches are available based on customer requirements.



Furnace TRANSFORMERS

The Induction Furnace features a coil made of heavy copper tubing, designed to work with an inverter circuit that applies medium-frequency voltage (typically 500 Hz or 1000 Hz) to generate heat through induced eddy currents in the charge. The inverter requires DC voltage, obtained by converting three-phase AC voltage using specialized transformers known as Induction Furnace Transformers. These transformers must endure high electrical, thermal, and mechanical stress due to frequent short circuits during the melting process. Unlike conventional transformers, furnace transformers are designed to handle high currents and frequent short circuits, ensuring reliable and efficient operation in demanding environments.

Capacity: 25 KVA to 500 KVA



Step Down **TRANSFORMERS**

A transformer is a static electrical device that transfers alternating current (AC) power between circuits at the same frequency while changing the voltage level. It works on the principle of electromagnetic induction.

For economic and technical efficiency, electrical energy is transmitted at high voltage to minimize transmission losses and is utilized at low voltage for safety at the consumer end.

This voltage conversion is achieved using transformers:

- A step-up transformer increases the voltage level from the primary to the secondary side, reducing current. It is mainly used in power generation stations for long-distance transmission.
- A step-down transformer reduces high voltage (HV) and low current from the primary side to low voltage (LV) and high current on the secondary side, making it suitable for end-use applications.

Characteristics of a Step-Down Transformer:

- The output voltage is lower than the input (source) voltage.
- The primary winding is high voltage (HV), and the secondary winding is low voltage (LV).
- The secondary voltage is less than the primary voltage.
- The primary winding has more turns than the secondary winding.
- The secondary current is higher than the primary current.
- Widely used in power distribution systems, especially in residential and commercial areas.



Colouring **TRANSFORMERS**

Achieve precise and reliable voltage control for your coloring applications with our Constant Voltage Transformers. Designed to maintain a stable and regulated voltage supply, these transformers effectively eliminate fluctuations that can impact color quality and accuracy.

Built with advanced technology and robust construction, our transformers ensure uninterrupted performance, delivering vibrant and consistent coloring results. They are ideal for applications where precision and uniformity are critical.

Trust our Constant Voltage Transformers for superior color accuracy, consistency, and dependable operation in your processes.

Key Features:

- **Stable Voltage Control:** Ensures consistent and precise voltage supply for accurate coloring results.
- **Reliable Performance:** Robust construction and advanced technology for uninterrupted power delivery.
- **Enhanced Color Accuracy:** Maintains stable voltage to achieve vibrant and consistent coloring outcomes.

