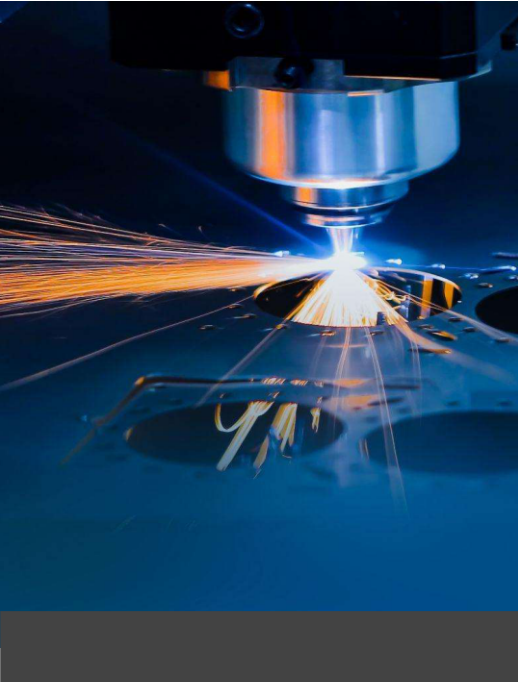


# Power Conditioning Solutions

Fine-tuned Power for critical equipments.





## About Us

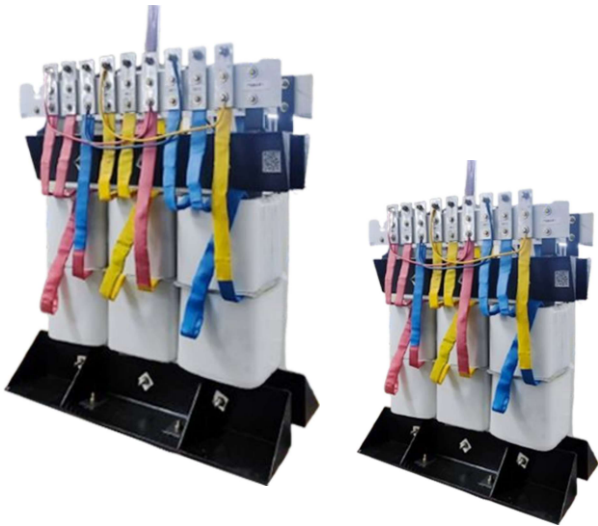
**iStatic Power Private Limited** is a trusted name in power conditioning solutions, delivering reliable and efficient voltage control products for industrial, commercial, and critical applications. With a strong focus on engineering excellence and product reliability, we specialize in the design, manufacturing, and supply of **Static Voltage Stabilizers, Servo Voltage Stabilizers, Aluminium Foil Transformers, and Copper Wound Transformers.**

Our static stabilizers are built using advanced solid-state technology to provide fast response, precise voltage regulation, and maintenance-free performance—ideal for sensitive and mission-critical equipment. Complementing this, our servo stabilizers offer robust and proven electromechanical solutions for heavy-duty and wide input voltage conditions.

In transformer manufacturing, iStatic Power combines high-grade materials with stringent quality controls. Our **Aluminium Foil Transformers** ensure compact design, improved thermal performance, and cost efficiency, while **Copper Wound Transformers** deliver superior conductivity, durability, and long-term reliability for demanding power environments.

Driven by a commitment to quality, safety, and customer satisfaction, iStatic Power Private Limited adheres to industry standards and continuously invests in technology and process improvements. Our solutions are engineered to enhance equipment life, reduce downtime, and ensure consistent power performance—making us a dependable partner for customers across diverse sectors.

**iStatic Power Private Limited – Power You Can Trust.**



# Transformers

Fine-tuned Power for critical equipments

*Aluminium Foil Transformers are built using advanced CNC winding and high-quality materials to deliver exceptional **efficiency, reliability, and performance** for modern power systems. Designed to overcome the challenges of weight, heat, and durability, they ensure **stable and long-lasting power conditioning** across critical installations.*

## UNIQUE FEATURES:

- **Lightweight & Compact:**  
Weighs only 42% of an equivalent copper transformer.
- **High Dielectric Strength:**  
Withstands higher voltage stresses naturally.
- **Low Noise Operation:**  
Minimal humming or vibration during operation.
- **Hot-Spot Resistant Design:**  
Flatter winding structure minimizes thermal stress.
- **High Heat Tolerance:**  
Operates efficiently even under high ambient temperatures.
- **Low Maintenance & High Efficiency:**  
Efficiency > 98% with long lifespan up to 40 years.

## WHY ALUMINIUM FOIL?

- 3X lighter than copper while retaining 60% conductivity.
- Lower capital expenditure (**CAPEX**) and maintenance.
- Better efficiency due to reduced eddy current losses.
- Eco-friendly — **highly recyclable and sustainable.**

*Delivering Precision Power  
with Zero Compromise*

## RANGE OF PRODUCTS:

Available in Aluminium Foil and Copper Wound..

| Model   | CAT CODE   | Capacity |
|---|------------|----------|
| <b>SPECIAL RATINGS FOR STATIC STABILIZERS (1 PHASE)</b> |            |          |
| ELM-IT-10   | IT310415N  | 10 KVA   |
| ELM-IT-15   | IT315415N  | 15 KVA   |
| ELM-IT-20   | IT320415N  | 20 KVA   |
| ELM-IT-25   | IT325415N  | 25 KVA   |
| ELM-IT-30   | IT330415N  | 30 KVA   |
| ELM-IT-40   | IT340415N  | 40 KVA   |
| ELM-IT-50   | IT350415N  | 50 KVA   |
| ELM-IT-60   | IT360415N  | 60 KVA   |
| ELM-IT-75   | IT375415N  | 75 KVA   |
| ELM-IT-90   | IT390415N  | 90 KVA   |
| ELM-IT-100  | IT3100415N | 100 KVA  |
| ELM-IT-125  | IT3125415N | 125 KVA  |
| ELM-IT-150  | IT3150415N | 150 KVA  |
| ELM-IT-175  | IT3175415N | 175 KVA  |
| ELM-IT-200  | IT3200415N | 200 KVA  |
| ELM-IT-250  | IT3250415N | 250 KVA  |
| ELM-IT-300  | IT3300415N | 300 KVA  |
| ELM-IT-350  | IT3350415N | 350 KVA  |
| ELM-IT-400  | IT3400415N | 400 KVA  |
| ELM-IT-500  | IT3500415N | 500 KVA  |

## TECHNICAL ADVANTAGES

- Compact and lightweight structure.
- Greater insulation reliability and thermal stability.
- Higher surge withstanding and overload capacity.
- Superior resistance to short circuit currents.
- Reduced sensitivity to harmonics and high-frequency effects.



| Features               | Copper Wound Transformer  | Aluminium Foil Transformer  |
|------------------------|---|---|
| Heating in the Winding | Higher  | Very Low  |
| Insulation Material    | Paper Based   | Polyester Film Based  |
| Size                   | 20-30% Bigger   | Very Compact  |
| Winding Direction      | Bi-directional winding, the coil direction alternates layer by layer, can lead to increased vibration and reduced efficiency. | Uni-directional winding, where it supports uniform current flow, reducing mechanical stress and improving overall efficiency. |
| Cost                   | Higher initial cost   | More cost-effective; lower upfront investment   |
| Sustainability         | Less abundant; recyclable   | Abundant and highly recyclable  |

## TECHNICAL SPECIFICATION:

| General Characteristics        | 1 Phase ELM -S  | 3 Phase ELM-T |
|--------------------------------|---|---------------|
| Input voltage regulation range | 1KVA – 80KVA  | 3KVA–2000KVA  |
| Output voltage                 | Customized, Up to 900V-PH-PH ( <i>Multi-tapping also available</i> )  |               |
| Frequency                      | 43–60 Hz  |               |
| Protection                     | I/p Breaker & O/p Breaker<br>All IP Classes Enclosures available<br>Temperature cutoff Sensor<br>Soft-starter |               |
| Load Regulation                | < 2%  |               |
| Impedance                      | Less than 5%  |               |
| Duty cycle                     | Continuous  |               |
| Metering                       | 2*16 LCD Display  |               |
| Display                        | Input Voltage - Phase & Line<br>Output Voltage - Phase & Line<br>Output Current (Optional)                    |               |
| Reading Accuracy               | ± 1%  |               |
| Standards                      | Meets IS 1171-1985 Dry Type Transformers Standards  |               |
| Maximum Ambient Temperature    | 45–50°C at full load  |               |
| Humidity                       | Up to 95% non-condensing  |               |
| Waveform Distortion            | NIL   |               |
| Laminations                    | CRNO, CRGO, M4 Grades ( <i>Special Laminations also available</i> )   |               |
| Conductor                      | Aluminium Foil & Copper Wire  |               |
| Efficiency                     | > 98%   |               |