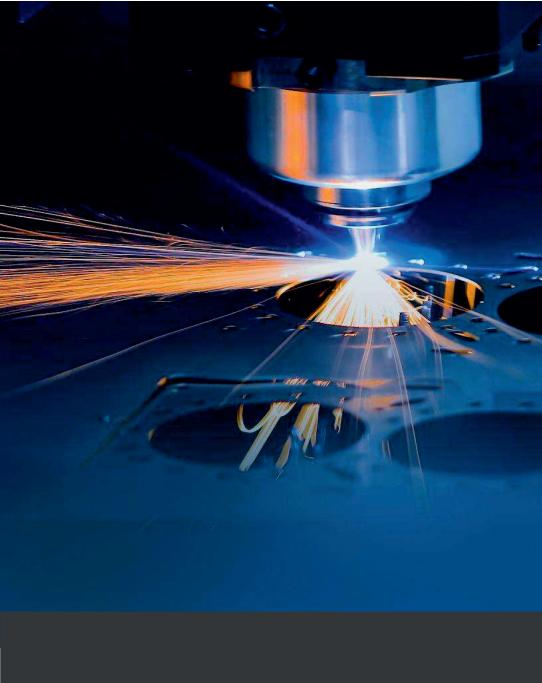


# Power Conditioning Solutions

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.

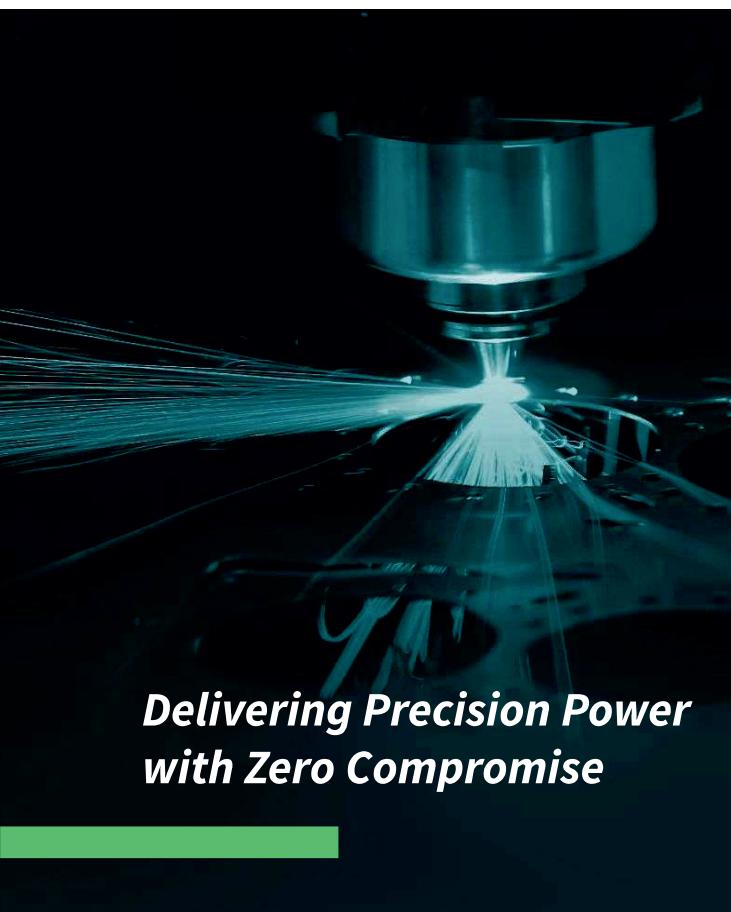
**iStatic Power Private Limited – Power You Can Trust.**



# Static Stabilizers

Fine-tuned Power for critical equipments

*Static Stabilizers ensure reliable, ripple-free voltage for today's sensitive and mission-critical electrical equipment. With IGBT-based PWM technology, they offer unmatched speed, accuracy, and energy efficiency - ensuring total protection and consistent performance.*



***Delivering Precision Power with Zero Compromise***

## UNIQUE FEATURES:

- **Advanced Technology:** IGBT-based PWM control ensures ultra-fast, accurate voltage regulation.
- **High Precision Regulation:** Output voltage maintained within **±1% accuracy**.
- **Ultra-Fast Response:** Correction speed as quick as **2–3 milliseconds**.
- **Maintenance-Free:** No moving parts — eliminating wear and ensuring long-term reliability.
- **Energy Efficient:** Delivers **>98% efficiency**, reducing operational costs.

## WHY STATIC STABILIZERS?

- Ideal replacement for conventional **servo stabilizers**.
- **Silent operation** with no mechanical noise.
- **Compact design** — easy to install and maintain.
- **Improves equipment life** by protecting against voltage fluctuations.

## RANGE OF PRODUCTS:

Model	CAT CODE	Capacity	Input voltage range
<b>SINGLE PHASE STATIC STABILIZER</b>			
ELM-S-3A	SS103170A	3 KVA	170 V - 270 V
ELM-S-5A	SS105170A	5 KVA	170 V - 270 V
ELM-S-7.5A	SS17.5170A	7.5 KVA	170 V - 270 V
ELM-S-10A	SS110170A	10 KVA	170 V - 270 V
<b>THREE PHASE STATIC STABILIZER</b>			
ELM-T-15A	SS315340A	15 KVA	340 - 480 V
ELM-T-15B	SS315295A	15 KVA	295-465 V
ELM-T-15C	SS315240A	15 KVA	240-465 V
ELM-T-20A	SS320340A	20 KVA	340 - 480 V
ELM-T-20B	SS320295A	20 KVA	295-465 V
ELM-T-20C	SS320240A	20 KVA	240-465 V
ELM-T-30A	SS330340A	30 KVA	340 - 480 V
ELM-T-30B	SS330295A	30 KVA	295-465 V
ELM-T-30C	SS330240A	30 KVA	240-465 V
ELM-T-40A	SS340340A	40 KVA	340 - 480 V
ELM-T-40B	SS340295A	40 KVA	295-465 V
ELM-T-40C	SS340240A	40 KVA	240-465 V
ELM-T-50A	SS350340A	50 KVA	340 - 480 V
ELM-T-50B	SS350295A	50 KVA	295-465 V
ELM-T-50C	SS350240A	50 KVA	240-465 V
ELM-T-60A	SS360340A	60 KVA	340 - 480 V
ELM-T-60B	SS360295A	60 KVA	295-465 V
ELM-T-75A	SS375340A	75 KVA	340 - 480 V
ELM-T-75B	SS375295A	75 KVA	295-465 V
ELM-T-90A	SS390340A	90 KVA	340 - 480 V
ELM-T-90B	SS390295A	90 KVA	295 - 465 V
ELM-T-100A	SS3100340A	100 KVA	340 - 480 V
ELM-T-100B	SS3100295A	100 KVA	295-465 V
ELM-T-125A	SS3125340A	125 KVA	340 - 480 V
ELM-T-125B	SS3125295A	125 KVA	295-465 V
ELM-T-150A	SS3150340A	150 KVA	340 - 480 V
ELM-T-150B	SS3150295A	150 KVA	295-465 V
ELM-T-200A	SS3200340A	200 KVA	340 - 480 V
ELM-T-200B	SS3200295A	200 KVA	295-465 V
ELM-T-250A	SS3250340A	250 KVA	340 - 480 V
ELM-T-300A	SS3300340A	300KVA	340 - 480 V
ELM-T-300B	SS3300295A	300KVA	295 - 465 V

## APPLICATIONS:



### Industrial Automation

- CNC machines
- PLC controlled machines
- Injection molding machines
- Robotic systems

*Where precise voltage is crucial for consistent performance.*



### Medical Equipment

- X-ray machines
- MRI scanners
- Life support systems
- ECG/EKG Machines

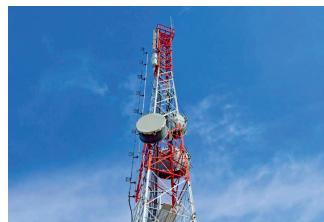
*Where voltage fluctuations can disrupt critical functions.*



### Datacentres

- Servers
- Network equipment
- Storage systems

*To maintain data integrity and prevent system crashes.*



### Telecommunications

- Switching systems
- Base stations
- Transmission equipment

*Critical to ensure signal quality and network stability.*



### Laboratory Equipment

- Analytical instrument
- Precision measuring devices

*Where accuracy is paramount.*



### Commercial Appliances

- High-end refrigerators
- Air-Conditioners
- Elevators and Lifts

*Where consistent power can extend lifespan of key assets.*

## TECHNICAL SPECIFICATION:

General Characteristics	1 Phase ELM -S	3 Phase ELM-T
Input voltage regulation range	(140–280)V, (170–280)V, (196–280)V	(240–465)V, (290–465)V, (320–480)V, (340–480)V
Output voltage	(230 or 240) V ± 1%, Customizable	(400 or 415) V ± 1%, Customizable
Frequency	47–53 Hz	
Protection	High & low voltage cut-off, Output overall cut-off, Short-circuit protection: Phase to Neutral, Phase to Phase	
Standard KVA Range	3–30 KVA	3–1600 KVA
Inbuilt	EMI/RFI Filter/ Surge Arrester	
Working Range	Working range will depend on cut-off % as per factory setting low — cut-off percentage 10%,15% High— cut-off percentage 5%,10%	
Metering	VIN, VOUT, IOUT	
Reading Accuracy	+/-1%	
Maximum Ambient Temperature	45°C at full load	
Humidity	Up to 95% non-condensing	
Overload protection cut-off	> 20% of Overload	
Trip	10% on low side and 5% on the high side	
Emergency Bypass	Available up to 75 KVA 3 PHS   Optional from 75KVA	
Efficiency	> 97%	



# Servo Stabilizers

Fine-tuned Power for critical equipments

*Servo Voltage Stabilizers ensure **stable** and **precise output voltage** by continuously adjusting variations through a high-accuracy servo motor mechanism. They safeguard electrical systems from **voltage fluctuations, low/high voltage, and surges**, ensuring long-term reliability and enhanced equipment lifespan.*



***Delivering Precision Power with Zero Compromise***

## UNIQUE FEATURES:

- High-precision servo control mechanism
- Protects against **under-voltage, over-voltage, surges & fluctuations**
- Improves efficiency and performance of sensitive loads
- Ensures constant output at **±1% regulation**
- Extends life of connected equipment

## APPLICATIONS:



Industrial Applications	Processing Sectors	Commercial Infra
<ul style="list-style-type: none"> <li>Manufacturing</li> <li>Textiles</li> <li>Packaging</li> <li>Defence</li> </ul>	<ul style="list-style-type: none"> <li>Printing</li> <li>Food processing</li> </ul>	<ul style="list-style-type: none"> <li>Homes / Villas / Apartments</li> <li>Shopping Malls</li> <li>Multiplexes</li> <li>Restaurants</li> <li>Resorts</li> <li>Healthcare</li> </ul>

## TECHNICAL SPECIFICATION:

General Characteristics	1 Phase ELM -S	3 Phase ELM-T
Input voltage regulation range	(140–280)V, (170–280)V, (196–280)V	(240–465)V, (290–465)V, (320–480)V, (340–480)V
Output voltage	(230 or 240) V ± 1%, Customizable	(400 or 415) V ± 1%, Customizable
Frequency		47–53 Hz
Protection		High & low voltage cut-off, Output overall cut-off, Short-circuit protection: Phase to Neutral, Phase to Phase
Standard KVA Ratings	3–30 KVA	3–1600 KVA

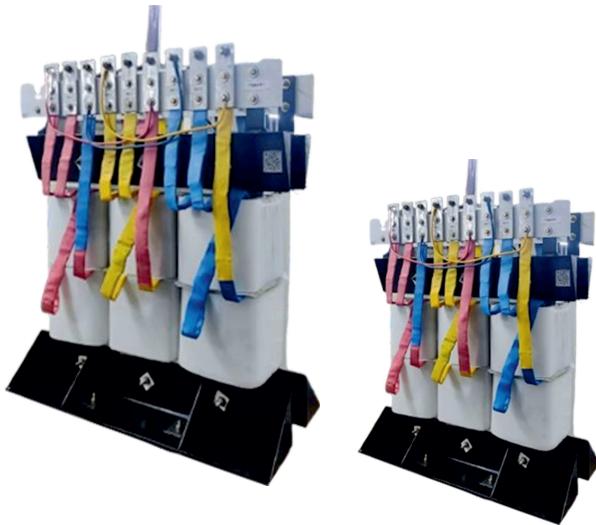
### Static Stabilizer

1. Solid-state electronics (IGBTs) for voltage regulation
2. Faster response with instantaneous voltage correction(High Speed Correction-20 milli seconds)
3. Handles moderate variations (±26% or less)
4. More efficient with no moving parts, suitable for precise regulation and moderate loads

### Servo Stabilizer

1. Motor-driven mechanism adjusting transformer taps
2. Slower response due to mechanical components
3. Handles wide voltage variations (±40% or more)
4. Less efficient with energy losses in motor; suitable for higher loads

Static Stabilizer	Servo Stabilizer
Higher	Very Low
Paper Based	Polyester Film Based
20-30% Bigger	Very Compact
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.
Higher initial cost	More cost-effective; lower upfront investment
Less abundant; recyclable	Abundant and highly recyclable



# 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.*



***Delivering Precision Power with Zero Compromise***

## 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.**

## 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 (Multi-tapping also available)	
Frequency		43-60 Hz
Protection	I/p Breaker & O/p Breaker All IP Classes Enclosures available Temperature cutoff Sensor Soft-starter	
Load Regulation		< 2%
Impedance		Less than 5%
Duty cycle		Continuous
Metering		2*16 LCD Display
Display		Input Voltage - Phase & Line Output Voltage - Phase & Line 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 (Special Laminations also available)
Conductor		Aluminium Foil & Copper Wire
Efficiency		> 98%