



# SAENGTHONG TRANSFORMERS

*Powering sustainable solutions since 1951*

[www.sttransformers.com](http://www.sttransformers.com)





# ABOUT US

**Saengthong Transformers Co., Ltd. (STT)** is a leading manufacturer of high-quality low-frequency transformers, trusted across various industries. With over 70 years of expertise, we deliver precision-engineered transformer solutions, ensuring the highest standards of quality in every detail. Our products are custom-designed to meet the specific needs of our customers.

Our company is committed to three core principles in manufacturing: Sustainability, Innovation, and Quality. These principles are applied across three key aspects of our organization: Product, Process, and People. They not only guide our business operations but also serve as a compass for decision-making at the executive level and a standard for our employees. This ensures that we continuously and sustainably deliver value to our customers.



## SUSTAINABILITY

We are committed to creating long-term value through sustainable practices in all areas of our business.



## INNOVATION

We embrace emerging technology and innovation, to meet evolving customer needs and stay ahead of future challenges.



## QUALITY

We uphold the highest standards, striving for excellence in every detail to consistently deliver value, and lasting satisfaction to our customers.



## PRODUCT

Our transformers are designed with energy efficiency and sustainable materials in mind, enabling our clients to contribute to broader global sustainability goals and impact.

Our transformers incorporate cutting-edge research and development, aligning with client requirements and proactively creating designs that anticipate future technological evolution.

We engineer transformers with durability, safety, and precision as fundamental criteria, ensuring our products consistently meet industry benchmarks and exceed customer expectations.



## PROCESS

We continuously refine our production methods to minimise resource consumption, reduce waste, and improve efficiency, ensuring respect to both the environment and resources.

We are committed to continuous improvement in our processes, ensuring we remain both effective and efficient.

We adhere to rigorous standards and best practices at every stage of production, maintaining quality controls that safeguard operational integrity and product reliability.



## PEOPLE

We foster relationships founded on trust and integrity, encouraging responsible actions, shared accountability, and lasting collaborative efforts.

We invest in our people to help them grow and upskill, empowering them to address new challenges in the future.

We hold ourselves and our colleagues accountable in promoting a culture that values quality craftsmanship, continuous improvement, and unwavering commitment to deliver value to our clients.



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## *Linear Transformers: EI*

EI transformers operate at low frequencies (50/60 Hz). Their core structure and laminated sheets in the shape of "E" and "I" help reduce energy loss, enhancing efficiency and durability in operation.

### **Key Features**

- **Durable and Stable:** Handles heavy-duty applications with long-lasting performance.
- **High Efficiency:** Provides reliable voltage conversion for power distribution.
- **Versatile Applications:** Suitable for industrial machinery, power supplies, and systems requiring stable operation.



### **Transformers Specifications**

- **Power:** 2 VA to 5 kVA
- **Primary Windings:** 100 V - 380 V, 50/100 Hz
- **Secondary Windings:** Custom-designed to meet customer requirements
- **Connections:** 8" - 12" color-coded insulated wires / Solder lug terminals
- **Insulation System:** Class B, withstands up to 130°C
- **Insulated Copper Wire:** Class B, withstands up to 130°C
- **Mounting Options:**
  - Chassis Mount
  - PCB Mount

*\*We can customise product to client's specifications.*





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## *Linear Transformers: Toroidal*

Toroidal transformers feature a ring-shaped core, offering high efficiency while reducing EMI and noise. They are ideal for audio systems, medical equipment, and precision applications. Additionally, they save space with high power density and minimal magnetic field leakage.

### **Key Features**

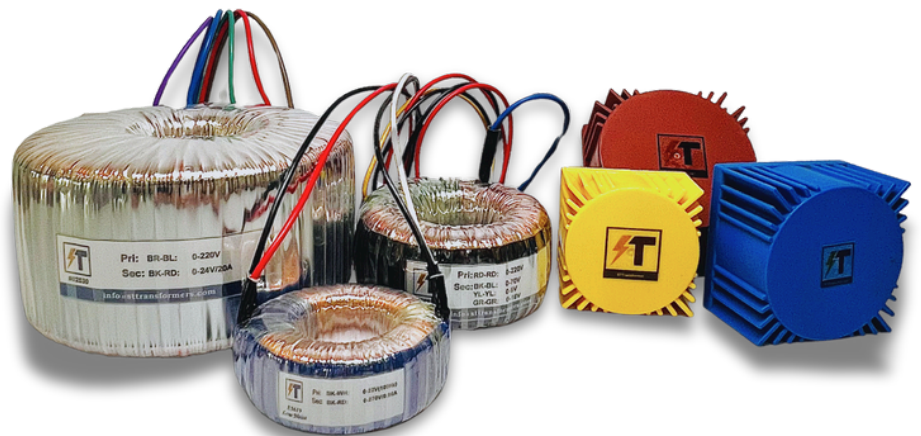
- **High Efficiency:** The toroidal core minimizes energy loss, ensuring more efficient power distribution.
- **Low Noise:** The enclosed magnetic field within the toroidal core effectively reduces EMI and noise.
- **Space-Saving:** The compact toroidal design allows for easy installation in limited spaces.



### **Transformers Specifications**

- **Power:** 10 VA to 2500 VA
- **Primary Windings:** 100 V - 380 V, 50/100 Hz
- **Secondary Windings:** Custom-designed to meet customer requirements
- **Connections:** 8" - 12" color-coded insulated wires
- **Diameter Range:** 2" - 7"
- **Insulation System:** Class E, withstands up to 120°C
- **Insulated Copper Wire:** Class H, withstands up to 220°C
- **Mounting Options:**
  - Chassis Mount
  - PCB Mount

*\*We can customise product to client's specifications.*





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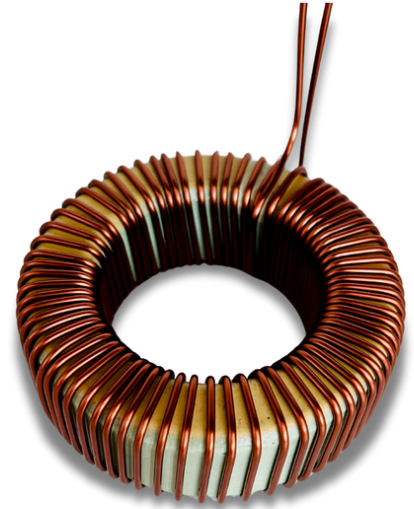
## Custom Choke

A noise suppression device (EMI) and high-frequency current filter, designed with precision-wound coils around a specialized magnetic core. Ideal for industrial applications, audio systems, and high-precision operations. We offer custom designs tailored to your specific requirements.

### Specifications

- **Inductance:** Custom-designed to meet specific requirements
- **DC Current:** 1.0 ADC to 10.0 ADC
- **Insulation System:** Class B (withstands temperatures up to 130°C)

*\*We can customise product to client's specifications.*





## Powerline Conditioner

A device that enhances the quality of power supplied to equipment by regulating voltage, filtering out noise (EMI/RFI), and protecting against power surges. This ensures more efficient and safer operation of connected devices, making it ideal for industrial applications.

### Key Features

- **Stable Voltage:** Regulates voltage to an optimal level, preventing damage from power sags or surges.
- **Noise Filtering:** Reduces EMI/RFI interference that affects the performance of sensitive equipment.
- **Surge Protection:** Safeguards against sudden voltage spikes or lightning strikes.
- **Extended Equipment Lifespan:** Delivers "clean" power, enhancing stability and durability of connected devices.
- **Versatile Applications:** Ideal for professional use, including audio-visual systems, medical equipment, data centers, and industrial applications requiring high-quality power.

### Product Specifications

- **Output Voltage:**  $\pm 3\%$  or less for input variation of  $\pm 15\%$
- **Output Waveform:** Sinewave with Total Harmonic Distortion (THD) of no more than 5%
- **Noise Attenuation:** Transverse mode attenuation better than 50 dB
- **Efficiency:** 85%-90% at full load
- **Electrical Insulation:** Class F (withstands temperatures up to 155°C)
- **Current Limiting:** Automatic current limiting at approximately 200% of full load
- **Construction:** Core housing made of aluminum
- **Warranty:** 2 years



Output VA	Weight	Dimension
300	19 kg	Length: 265 mm Width: 160 mm Height: 275 mm
600	27 kg	Length: 265 mm Width: 170 mm Height: 375 mm
1200	34 kg	Length: 265 mm Width: 220 mm Height: 450 mm



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