

# TRANSFORMERS BUILT FOR INDUSTRIAL POWER AND AUTOMATION

## INNOVATION & EFFICIENCY

Experience our high-quality electrical transformers, available in single phase 10VA to 15kVA and three phase 30VA to 45kVA. They offer safety features, insulation class options, and easy installation. Designed with low-inrush current for equipment protection, they meet safety standards (cULus approved, UL certified, CE marked) for quality and reliability, enhancing your electrical system.



**Variable Output Power**



**Tailored for Low-Noise Applications**



**Unique Voltage Requirements**



**Reliability & Temperature Control**

## WHY TOROIDAL TRANSFORMER

The Toroidal Transformer presents various advantages over EI-type transformers. Powertronix offers a wide range of toroidal transformers and employs proprietary software to create tailored toroids for clients.

## LOW STRAY FIELD

Toroidal Transformers with evenly wound primaries and secondaries have a very low stray field, best for audio equipment

## COST EFFECTIVE

Cut down equipment expenses by opting for toroidal transformers due to their compact and lightweight nature. Smaller transformers are more cost-effective to produce and can help lower your system cost by enabling flexible chassis design. Utilizing a transformer core made from a single steel strip offers cost-saving benefits through customizable configurations. The efficiency and losses at different stages of the system impact the overall operating cost. By reducing these losses, you can decrease product costs and offer long-term savings.

## TESTED RELIABLY FOR INDUSTRIAL STRENGTH

Each transformer undergoes rigorous testing according to the highest reliability standards. Our engineers possess vast experience in developing highly reliable designs, with many of our products boasting an average of over one million hours between failures. This dedication to quality ensures that our transformers deliver exceptional performance even in the most demanding environments.



## TRANSFORMER SPECIFICATIONS

- < 10A-15kVA, Isolation, Auto
- < Insulation Class: A, B, F, H
- < Low Inrush Current Design available
- < Safety Approvals: cULus Approved to UL 60601-1 2nd Edition, ANSI/AAMI ES60601-1 3rd Edition, CB Certified to IEC60601-1, UL 506, UL 508, UL 60065, UL 60950, UL 61010-1, UL 1411, & CE Marked

## TRANSFORMER CUSTOMIZATIONS

- ✓ **Smaller Size / Flat Transformer:** We can reduce sizing, weight, & produce an extremely flat transformer design for low profile equipment.
- ✓ **Duty Cycle:** If your load is high but not constant, that is  $T_{off} > T_{on}$ , we can design a smaller unit with duty cycle.
- ✓ **Quite:** Very low mechanical hum makes toroidal transformers perfect for low noise applications.
- ✓ **Mounting Options:** Customizable mounting options tailored to your application.



# TRANSFORMER POWER SUPPLIES SAFETY CERTIFICATIONS

CB Certified to IEC 60601-1 | IEC 60601-1 | cTUVus tested to ANSI/AAMI ES 60601-1:2005+A2 (R2012) | CAN/CSA-C22.2 No. 60601-1-6:11+A1 | IEC 60950(ed.2), IEC 6060950-1(ed.2); am1, IEC 60950-1(ed.2) | CB Certified to IEC/EN 60950-1:2005 | RoHS Compliant | CE Marked

## 3-PHASE



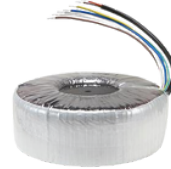
300 - 600 VA  
115/230VAC @ 50/60Hz Input & Output, IEC  
320 Inlet, IEC Receptacles- 4 outlets,  
customizable mounting

### BENEFITS & APPLICATIONS:

High Efficiency, Compact, & Cost-Effective. Great for Power Distribution, Industrial Plants, & Commercial Buildings.



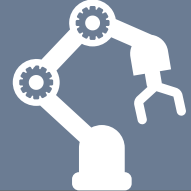
## LOW INRUSH CURRENT



300 - 1,000 VA  
115/230VAC @ 50/60Hz Input & Output, IEC  
320 Inlet, IEC Receptacles- 4 outlets,  
customizable mounting

### BENEFITS & APPLICATIONS:

Low Inrush, Stable Output, Reliable Performance. Great for Motor Drives, Automation Systems, & Process Control Equipment.



## CURRENT



300 - 1,800 VA  
Voltage Selectable Worldwide, Configurable for IEC, NEMA: Worldwide, Customizable Mounting

### BENEFITS & APPLICATIONS:

Accurate Measurements, Durable, & Compact. Great for Power Monitoring, Data Centers, & Switchgear.



## HIGH VOLTAGE



300 - 3,000 VA  
Voltage Selectable Worldwide, Configurable for IEC, NEMA: Worldwide, Customizable Mounting

### BENEFITS & APPLICATIONS:

High Voltage, Reliable Insulation, & Robust Design. Great for Sub-stations, Transmission Networks, & Heavy Industry.



## HIGH EFFICIENT POWER



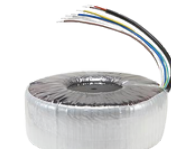
18 - 15,000 VA  
Frequency of 47Hz-2,000Hz, Isolation of 4,000 Volt RMS, Voltage Regulation of <3%, Creepage Minimum 8m

### BENEFITS & APPLICATIONS:

High Efficiency, Low Losses, & Cost-Effective. Great for Industrial Plants, Power Distribution, & Renewable Integration.



## INTERMITTEN DUTY CYCLE



1,000 - 45,000 VA  
Frequency of 47Hz-63Hz, Input and Output Voltage up to 600 V RMS, Configurable for IEC, NEMA: Worldwide, Customizable

### BENEFITS & APPLICATIONS:

Rugged, High Output, & Compact. Great for Welding Machines, Presses, & Industrial Testing Equipment.

