

# Key Benefits of Torus Power isolation power transformers

## **Benefit #1: Provides more dynamic range for superior audio performance**

*Here's how:* Torus power isolation units present low impedance to any electronic device that is connected to them. A Single 20 amp Torus Power transformer has an output impedance of 0.2 ohms and can deliver 400 amp peaks (instantaneous current). A typical 200-watt audio power amplifier demands 10 amps RMS current from a 120-volt line (1200VA) but may demand up to 50 amp instantaneous peaks. The standard residential wall receptacle can't supply the 50 amp peaks because it typically has higher nominal impedance. A Torus 20 amp isolation transformer plugged into the same wall plug can supply these peak current requirements quite easily.

## **Benefit #2: Protects your equipment with superior surge protection**

*Here's how.* Torus power uses series mode surge suppression technology to fully protect your equipment from damaging lightning strikes and power surges. Torus Power's Series Mode Surge Suppression does not shunt the voltage spike to ground like MOV's do, and therefore the ground remains stable and uncontaminated. Torus Power's surge suppression has clamping voltage onset that absorbs voltage surges more than 2V above peak nominal line voltage. Torus units are built to surpass IEEE endurance standards of withstand lightning strikes of 6000 volts, 3000 amps with 1000 repeats.

## **Benefit #3: Total isolation from the outside power grid**

*Here's how:* Torus power provides isolation from the outside power grid through a Plitron designed and built toroidal isolation transformer. Torus Power isolation transformers eliminate electrical noise caused by sources such as motors, lights, appliances and dimmers commonly found in the home environment. Providing power to your system from a Torus Power isolation transformer is infinitely superior to using wall power that is increasingly polluted and noisy.

## **Benefit #4: Better grounding and higher power capability**

*Here's how:* Torus Power builds many models with power ratings beyond 20 Amp, the power rating where most other manufacturers stop. At Torus Power we build models with power ratings of 90 Amps, 100 Amps, and beyond. Using a single, larger isolation transformer to power a system will provide a superior ground connection, lower the noise floor of the entire system, and effectively reducing the possibility of ground loops.

### **Benefit #5: Torus Power units are inherently quiet**

*Here's how:* Torus Power utilizes Plitron's 'LONO' (Low Noise) transformer design technology that eliminates audible noise in the power transformer regardless of line conditions, DC offset and over-voltage. Torus products perform at the NC10 level measured on the standard NC (Noise Criterion) rating – which makes them ideal for use in even the most demanding environments such as professional recording and broadcast studios, as well as in home media and audio/video systems.

### **Benefit #6: Cleaner power provides cleaner sound**

*Here's how:* Torus products utilize Plitron "NBT" (Narrow Bandwidth Technology) to attenuate differential and common-mode noise without using external circuits or components. NBT technology starts at a lower corner frequency (2 kHz) than other systems and the result is startling – dramatic improvements that are immediately noticeable in audio and video systems!

### **Benefit # 7: Automatic Voltage Control enhances performance and equipment longevity**

*Here's how:* Torus Power's automatic voltage regulation technology provides stable voltage to connected equipment, regardless of fluctuations in the incoming line voltage. Equipment operating at the optimal voltage will perform better and last longer. Voltage fluctuations cause stress to electronic components and sensitive microprocessors within the components which often will cause premature failure. With the degradation of the power grids worldwide, automatic voltage regulation provides the extra assurances of peak performance and longevity for valued audio and video equipment.