



RM series



History of TORUS POWER

The Torus Power brand was introduced in 2005 by Plitron Manufacturing Inc., a Canadian company specializing in toroidal transformers since 1983. The genesis of Torus Power was provided by the combination of Plitron's capability to design and manufacture no-compromise toroidal transformers, with the deep understanding of the requirements of the audio and video industry for improved power quality to ensure performance and long-term reliability of all connected equipment.

All Torus Power audio-video power conditioners utilize Plitron-built toroidal isolation transformers that act as low-pass filters to provide clean power, as opposed to most the products on the market that provide only filtering. Torus Power products provide the proper implementation of proprietary patented technology called "Narrow Band Technology" (NBT) developed by Plitron that allows the isolation transformer to perform as a low pass filter. All Torus products, regardless of power rating or series feature toroidal isolation transformers as the base technology platform.

Engineered to Perform Like No Others

Torus Power Isolation Power Line Conditioners include unique toroidal transformer technologies from PLITRON to provide the ultimate in AC power conditioning and protection for sensitive audio and video equipment applications. Isolation is combined with proven proprietary technologies from PLITRON in the over-sized toroidal transformer. NBT works as a low pass filter using the controlled leakage inductance and capacitances within the transformer to effectively reduce noise. LoNo technology has been used for years by high-end audio companies who demand silent transformers. UST provides additional common mode filtering using a highly efficient Faraday screen. High instantaneous peak current capability, providing the most unconstrained, yet protected, energy source available to your equipment.

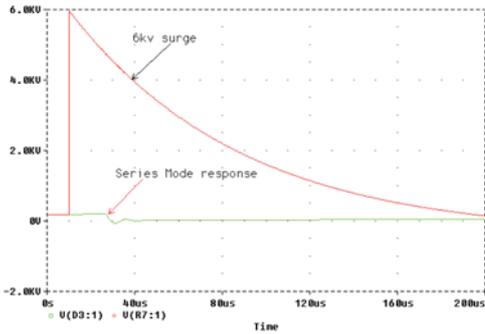
Torus Power Isolation Units Provide Clean AC Power and Surge Suppression that really works

Noisy AC power delivery adversely affects every aspect of your Audio/Video system. From diminished resolution and dimensionality in audio playback to lifeless colors and poor contrast in video display. Torus Power Isolation Units (PIUs) totally ISOLATE your audio/video system from these harsh AC power line realities and provide state-of-the-art protection and performance. Torus PIUs are available in a family of models rated from 2.5A to 100A to provide a complete system to protect and improve audio/video performance. Standard 120V versions are available in rack mount and box styles, as well as balanced 240V input versions for custom installations. The Torus PIU's deliver true isolation along with low source impedance and large enough instantaneous current for today's most sophisticated and powerful audio amplifiers. (Most products in the category are simple filters and do not provide isolation between the outside power grid and the inside power source). The ever-present risk of severe power line spikes caused by everything from machinery and common household appliances to lightning storms is a constant threat to your system. Torus provides state-of-art protection and series mode surge without the use of failure-prone MOVs (metaloxyde varistors). Torus Power Isolation Units provide Clean AC Power to enable you to obtain the performance your audio and video products are capable of; plus, protect your valuable equipment through the advanced series mode surge suppression.



Benefit #1: Very low source impedance and high current for the power amplifier

Torus power isolation units present low impedance to any electronic device that is connected to them. A Single 20 amp Torus PIU has an output impedance of 0.2 Ohms and can deliver 400 amp peaks (instantaneous current). The 100 amp unit only has .04 Ohms of output impedance. 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 they typically have higher nominal impedance. A Torus 20 amp PIU plugged into the same wall plug can supply these peak current requirements quite easily.



Benefit #2: Power surge protection using Series Mode Surge Suppression rather than MOV's

The Torus power products use the finest, most elaborate surge suppression technology available. Series Mode Surge Suppression does not shunt the spike to ground like MOV's do, and therefore the ground is infinitely more stable in a Torus power device. Additionally, most MOV-based surge suppression units allow as much as 300 volts through to the protected components, easily enough to do substantial damage, whereas Torus surge suppression has clamping voltage onset of around 2V above peak nominal voltage. Torus units are built to meet 6000 volts, 3000 amps at 1000 repeats standard.

Benefit #3: Total isolation from outside power grid

Torus power products provide isolation through its finest designed toroidal transformer between the outside power grid and the devices being protected. Such isolation helps to reject external noise sources such as motors, lights, and dimmers commonly found in the home environment. Torus power products provide noise filtering at a range from approximately 2000Hz to over 1MHz – other regular transformer based products do not start operating until nearly 10,000 Hz.

Benefit #4: High Power Capability

There are 15 models of Torus power products available ranging from 2.5 amps to 100 amps and 120/240 Volts. Torus has recently introduced NEMA wall-mount units, which are typically placed at the hydro panel for whole-house or whole-room power line isolation and protection.

Benefit# 5: Low Noise

Torus products utilize Plitron '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 Criteria) – which makes them suitable for use in very quiet environments such as professional recording and broadcast studios.

Benefit # 6: Cleaner Power

Torus products utilize Plitron "NBT" (Narrow Bandwidth Technology) to attenuate differential and common-mode noise without external circuits or components, and starting at a lower frequency (typically 2kHz). The Torus result is startling – see press and user comments!

RM Series - Classic Power Conditioning for Audio / Video Installations

Torus RM Series Power Conditioners are compact, have multiple outlets, enabling all system audio / video components to be connected easily. These components complement any high end audio/video installation. RM Series Includes a Toroidal Isolation Transformer, Clean Power, Series Mode Surge Suppression, Noise Filtration, High Instantaneous Current Capability, and more.

	Model No.	Outlets	Toroidal Isolation	Clean Power	Surge Suppression	Automatic Voltage Regulation	Ethernet Connectivity / RS-232
RM series	RM Series – Toroidal Isolation Transformer, Clean Power, Series Mode Surge Suppression, Noise Filtration, High Instantaneous Current Capability						
	RM 4 515R	6	●	●	●		
	RM 8 515R	10	●	●	●		
	RM 16 520R	12	●	●	●		
	RM 30 520R	12	●	●	●		
	RM 45 520R	12	●	●	●		
	RM 2 515R BX	4	●	●	●		
	RM 4 515R BX	6	●	●	●		