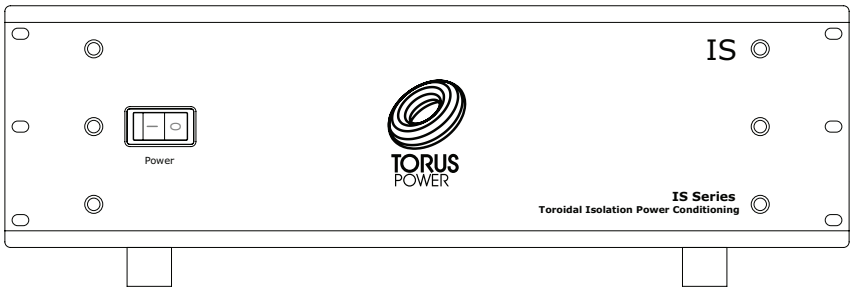
TORUS POWER

Engineered to perform
& protect like no other

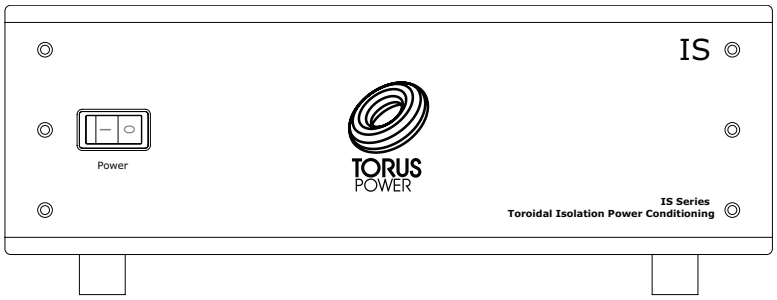
Toroidal Isolation
Power Transformers

IS Series Manual

Toroidal Isolation Power Conditioning
Audio/Video Power Isolation Units



19” Pro Series Rack Mount (RK) Faceplate



17” Consumer Series (C) Faceplate
Available in Black (B) and Silver (S) colours

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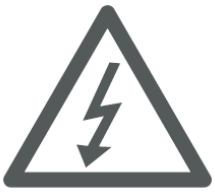
Important Safety Instructions



CAUTION! To reduce the risk of electric shock and fire, do not remove the cover of this device. There are no user serviceable parts inside. Please refer all servicing to licensed service technicians.

CAUTION! The international symbol of a lightning bolt inside a triangle is intended to alert the user to uninsulated "dangerous voltage" within the device's enclosure. The international symbol of an exclamation point inside a triangle is intended to alert the user to the presence of important operating, maintenance and servicing information in the manual accompanying the device.

CAUTION! To prevent electrical shock, match wide blade of plug to wide slot, fully insert.

CAUTION! To reduce the risk of electrical shock, do not expose this equipment to rain or moisture.

1. Read Instructions—All safety and operating instructions should be read before operating the device.

2. Retain Instructions—The safety and operating instructions should be retained for future reference.

3. Heed Warnings—All warnings on the device and in the operating instructions should be adhered to.

4. Follow Instructions—All operating and safety instructions should be followed.

5. Water & Moisture—The device should never be used in, on or near water for risk of fatal shock.

6. Ventilation—The device should always be located in such a way that it maintains proper ventilation. It should never be placed in a built-in installation or anywhere that may impede the flow of air through its ventilation slots.

7. Heat—Never locate the device near heat sources such as radiators, floor registers, stoves or other heat-generating devices.

8. Power Cord Protection—Power cables should be routed so they are not likely to be stepped on or crushed by items placed on them or against them. Special attention should be paid to areas where the plug enters a socket or fused strip and where the cord exits the device.

9. Periods Of Non-Use—The device should be unplugged when not being used for extended periods.

10. Dangerous Entry—Care should be taken that no foreign objects or liquids fall or are spilled inside the device.

11. Service—The device should always be serviced by licensed technicians. Only replacement parts specified by the manufacturer should be used. The use of unauthorized substitutions may result in fire, shock, or other hazards.

12. Damage Requiring Service—The device should be serviced by licensed technicians when:

- The plug or power supply cord has been damaged.
- Objects have fallen or liquid has spilled inside the device.
- The device has been exposed to moisture.
- The device does not appear to be operating properly or exhibits a marked change in performance.
- The device has been dropped or the enclosure becomes damaged.

13. Do not position the equipment so that it is difficult to operate the disconnecting device (power cord).

14. If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

15. The power switch should be in the "off" position when connecting or disconnecting equipment from a Torus Power unit.

16. CAUTION Some units can be very heavy, please use safe practices when lifting.

Shipping Carton & Packing Material

Please keep the original shipping box and all packing material. This will ensure the unit is protected in future transport.

In the unlikely event you have a problem and must return it for service you must use the original packing material.

Ship the unit only in the original packing material, as the unit is not insurable by carriers otherwise.

Placement & Ventilation

Torus power PIUs are extremely efficient yet very high power devices, and must be adequately cooled.

PIUs have ventilation slots on the base, side panels and on the cover. Maintain at least 1" distance from each of these surfaces to anything else. Should your installation conditions be constricted, additional forced air-cooling may be necessary.

Do not install the unit directly above heat generating equipment. Maintain at least 6" behind the PIU for adequate wiring space.

Torus Power IS Series Description

The Torus Power IS Series PIUs (Power Isolation Units) 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 cancel common mode and differential mode noise. LoNo technology has been used for years by high-end audio companies who demand silent transformers. Imin technology reduces inrush currents. UST provides additional common mode filtering using a highly efficient faraday screen.

Low output impedence technology allows high instantaneous peak current capability, providing the most unconstrained, yet protected, energy source available to your equipment.

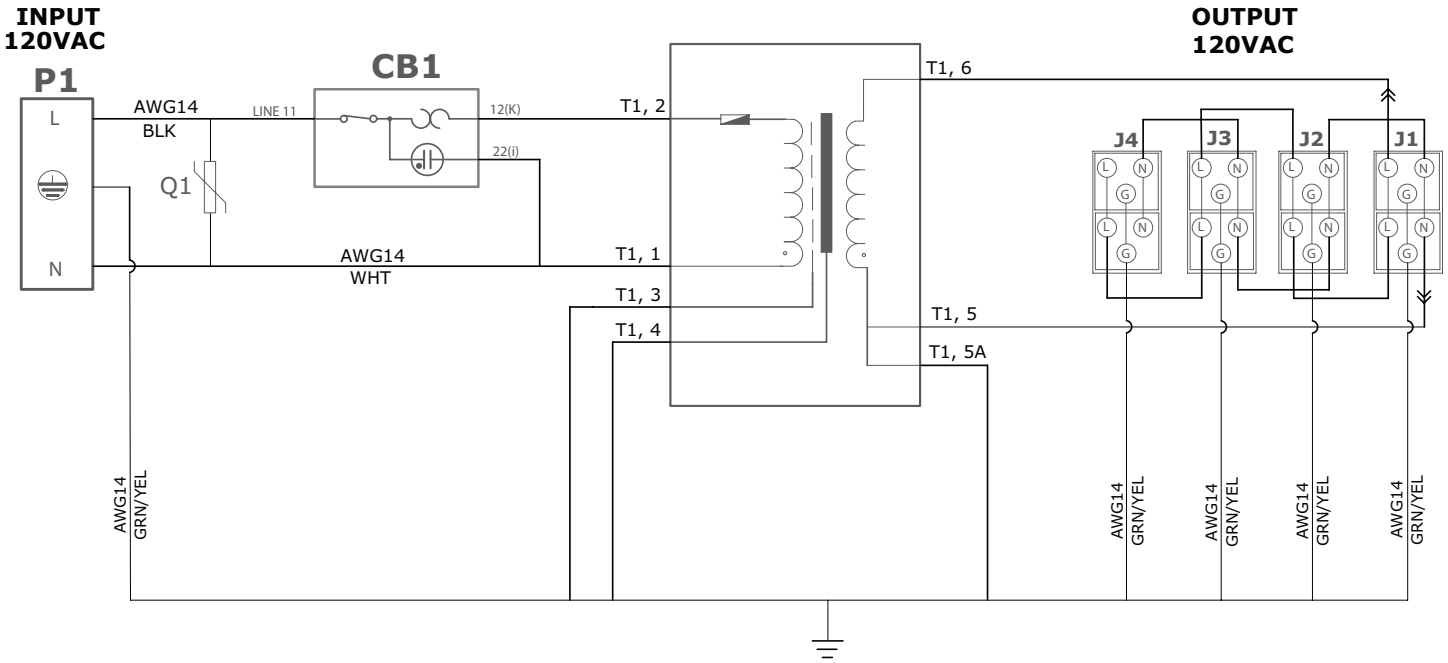
Circuit Protection

The front panel power switch is appropriately fused and hence it prevents excessive current from entering the PIU.

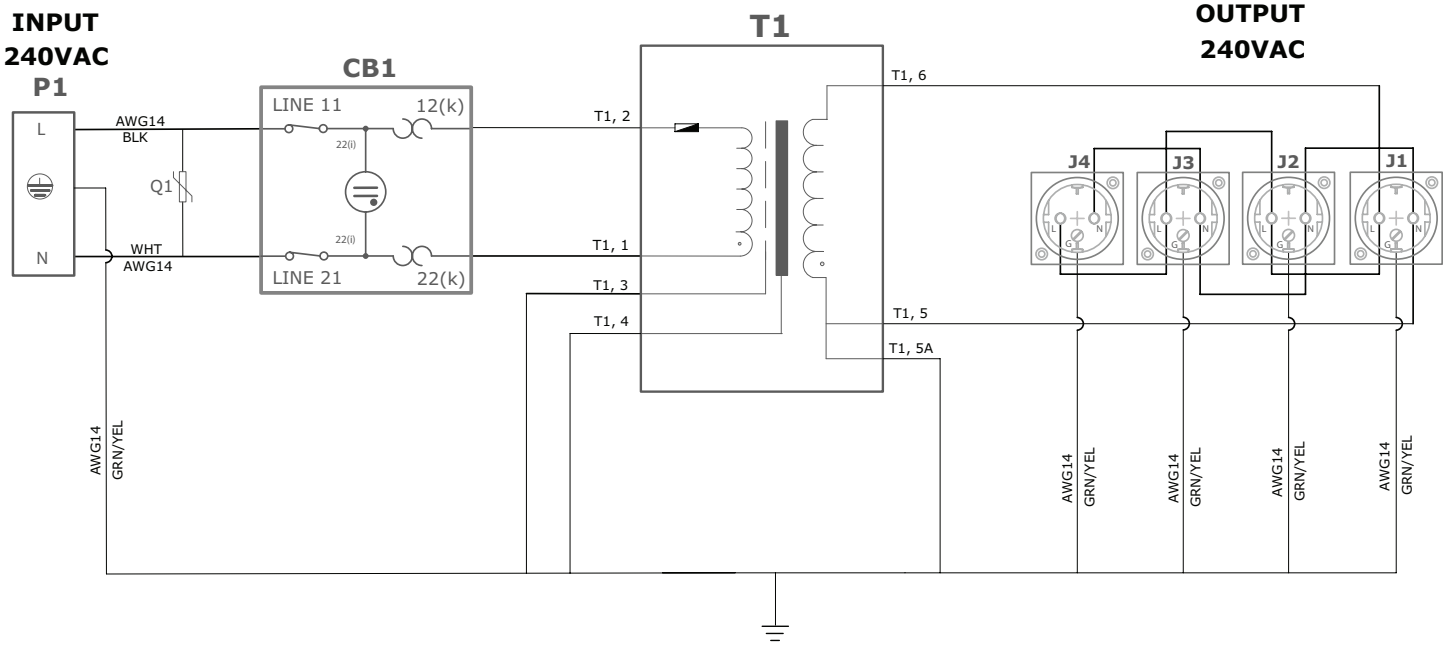
Thermal Protection

Torus Power PIU will shut down if internal unit temperature reached excessive levels.

Circuit Schematic - North American IS Model (IS 10)



Circuit Schematic - International IS Model (IS 4 CE)



Note:
Circuit schematic drawing is provided for reference only, Torus Power IS units have no user serviceable parts inside. Please return unit to manufacturer for repair and service when required.

Electrical Specifications - North American Models

Model Number	Input Voltage Nominal	Output Voltage Nominal	Input Circuit Breaker (Fuses)	Maximum Available Output Current
IS 5	120VAC, 60Hz	120VAC	1x5A	5A
IS 10			1x10A	10A
IS 15			1x15A	15A
IS 20			1x20A (Fuse)	20A

Electrical Specifications - International Models

Model Number	Input Voltage Nominal	Output Voltage Nominal	Input Circuit Breaker (Fuses)	Maximum Available Output Current
IS 4 CE	220-240VAC, 50/60Hz	220-240VAC	1x4A	4A
IS 8 CE			1x8A	8A
IS 4 UK	220-240VAC, 50/60Hz	220-240VAC	1x4A	4A
IS 8 UK			1x8A	8A
IS 4 AUS	220-240VAC, 50/60Hz	220-240VAC	1x4A	4A
IS 8 AUS			1x8A	8A
IS 4 NEUTRIK	220-240VAC, 50/60Hz	220-240VAC	1x4A	4A
IS 8 NEUTRIK			1x8A	8A
IS 4 IEC	220-240VAC, 50/60Hz	220-240VAC	1x4A	4A
IS 8 IEC			1x8A	8A
IS 4 615R	220-240VAC, 50/60Hz	220-240VAC	1x4A	4A
IS 8 615R			1x8A (Fuse)	8A

Mechanical Specifications - North American Models

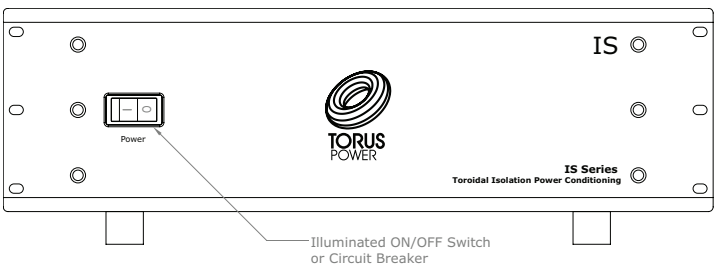
Model Number	Input Connector (Rear Panel)	Output Connector (Rear Panel)	Line Cord	Size, mm (WxDxH) Size, inch (WxDxH)	Weight KG(lb)	Chassis Height
IS 5	IEC 15A Inlet, NEMA C14	6 Medical Grade Outlets, 15A	N5/15, 14AWG-C13, 15A/125V	483x287x102 19x11.3x4	12.5(28)	2U (3.50”)
IS 10		8 Medical Grade Outlets, 15A			15.5(34)	
IS 15		10 Medical Grade Outlets, 15A			19(42)	
IS 20	IEC 20A Inlet, NEMA C20	10 Medical Grade Outlets, 20A	N5/20, 12AWG-C19, 20A/125V	483x419x159 19x16.5x6.3	35(77)	3U (5.25”)

Mechanical Specifications - International Models

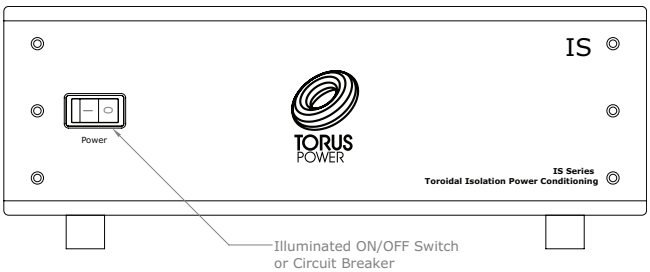
Model Number	Input Connector (Rear Panel)	Output Connector (Rear Panel)	Line Cord	Size, mm (WxDxH) Size, inch (WxDxH)	Weight KG(lb)	Chassis Height
IS 4 CE	IEC 15A Inlet, NEMA C14	16A/250V CE Socket (x4)	10A/250VAC, 2.5M Plug: CEE 7/7 Connector: IEC-C13	483x287x102 19x11.3x4	17.5(38.5)	2U (3.50”)
IS 8 CE		16A/250V CE Socket (x5)		483x419x159 19x16.5x6.3	32(70.5)	3U (5.25”)
IS 4 UK	IEC 15A Inlet, NEMA C14	13A/250V UK Socket (x3)	10A/250VAC, 2.5M Plug: BS 1363 Connector: IEC-C13	483x287x102 19x11.3x4	17.5(38.5)	2U (3.50”)
IS 8 UK		13A/250V UK Socket (x5)		483x419x159 19x16.5x6.3	32(70.5)	3U (5.25”)
IS 4 AUS	IEC 15A Inlet, NEMA C14	10A/250V AUS Socket (x3)	10A/250VAC, 2.5M Plug: AS/NZS 3112:2000 Connector: IEC-C13	483x287x102 19x11.3x4	17.5(38.5)	2U (3.50”)
IS 8 AUS		10A/250V AUS Socket (x5)		483x419x159 19x16.5x6.3	32(70.5)	3U (5.25”)
IS 4 NEUTRIK	IEC 15A Inlet, NEMA C14	16A/250V NEUTRIK Socket (x4)	10A/250VAC, 2.5M	483x287x102 19x11.3x4	17.5(38.5)	2U (3.50”)
IS 8 NEUTRIK		16A/250V NEUTRIK Socket (x8)	10A/250VAC, 2.5M	483x419x159 19x16.5x6.3	32(70.5)	3U (5.25”)
IS 4 IEC	IEC 15A Inlet, NEMA C14	10A/250V IEC Socket (x6)	10A/250VAC, 2.5M	483x287x102 19x11.3x4	17.5(38.5)	2U (3.50”)
IS 8 IEC		10A/250V IEC Socket (x8)	10A/250VAC, 2.5M	483x419x159 19x16.5x6.3	32(70.5)	3U (5.25”)
IS 4 615R	IEC 15A Inlet, NEMA C14	6 Medical Grade Outlets, 15A	N5/15, 14AWG-C13, 2.5M	483x287x102 19x11.3x4	17.5(38.5)	2U (3.50”)
IS 8 615R	IEC 20A Inlet, NEMA C20	10 Medical Grade Outlets, 15A	N5/15, 12AWG-C19, 2.5M	483x419x159 19x16.5x6.3	32(70.5)	3U (5.25”)

Typical Front Panel Layout - North American and International Models

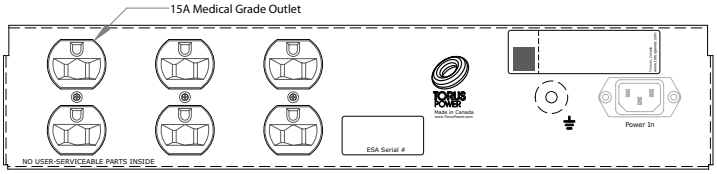
19” Pro Series Rack Mount (RK) Faceplate



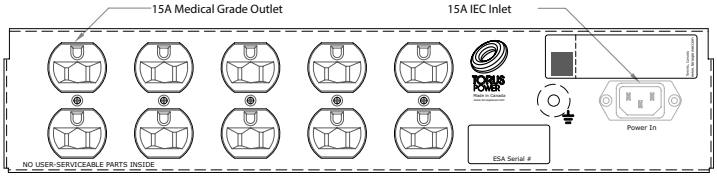
17” Consumer Series (C) Faceplate available in Black (B) and Silver (S)



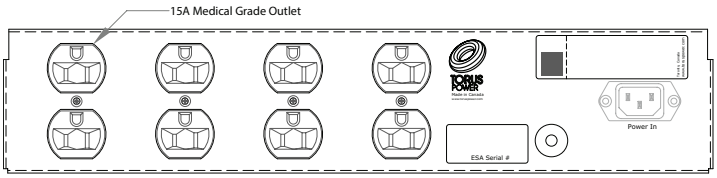
Rear Panel Layout - North American Models



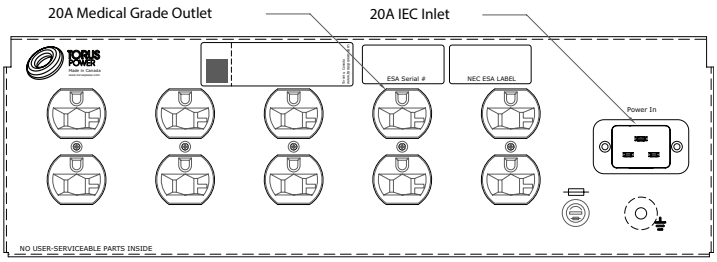
Models: IS 5 RK, IS 5 CB, IS 5 CS



Models: IS 15 RK, IS 15 CB, IS 15 CS

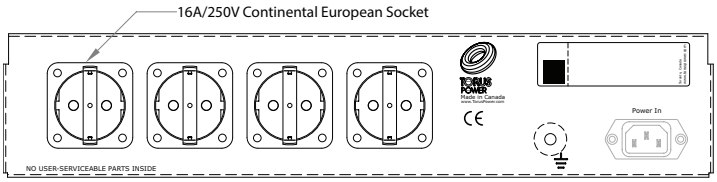


Models: IS 10 RK, IS 10 CB, IS 10 CS, IS 4 615R RK,
IS 4 615R CB, IS 4 615R CS

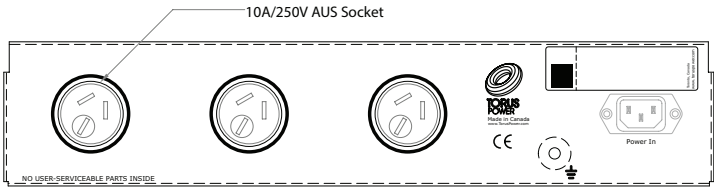


Models: IS 20 RK, IS 20 CB, IS 20 CS

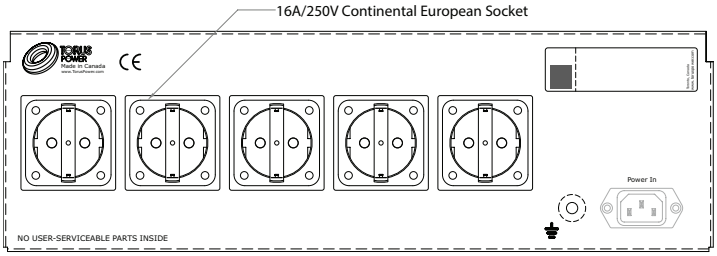
Rear Panel Layout - International Models



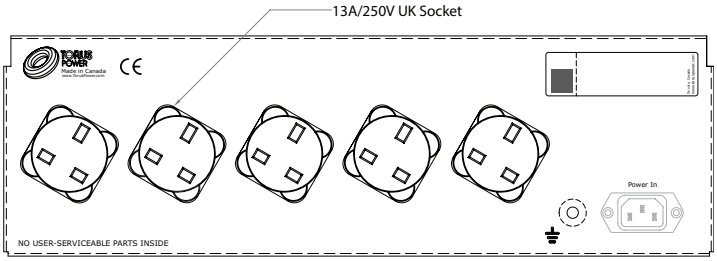
Models: IS 4 CE RK, IS 4 CE CB, IS 4 CE CS



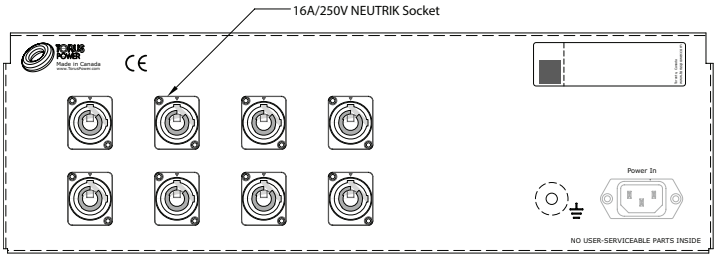
Models: IS 4 AUS RK, IS 4 AUS CB, IS 4 AUS CS



Models: IS 8 CE RK, IS 8 CE CB, IS 8 CE CS



Models: IS 8 UK RK, IS 8 UK CB, IS 8 UK CS



Models: IS 8 NEUTRIK RK, IS 8 NEUTRIK CB, IS 8 NEUTRIK CS

Warranty

Torus Power products are warranted to be free from manufacturing defects for five years from the original date of sale. This includes parts, labour and return shipping to the first registered owner and all subsequent registered owners. Warranty coverage is extended to applicable products registered or having proof-of-purchase (sales invoice, etc.).
In the event of a defect or malfunction, Torus Power will remedy the problem by repair or replacement, as we deem necessary, to restore the product to full performance.
This warranty is considered void if the defect, malfunction or failure of the product or any component part was caused by damage (not resulting from a defect or malfunction) or abuse while in the possession of the customer. Failure to fully comply with Torus Power operating instructions, voids the warranty.

Torus Power products are marketed worldwide through Plitron Manufacturing Inc.

For sales contact:
torussales@plitron.com
Phone: 416-667-9914
Fax: 416-667-8928
Toll free: 1-800-754-8766

Technical inquiries:
torustechnical@plitron.com
Phone: 416-667-9914

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Torus Power
#8 601 Magnetic Drive Toronto,
ON M3J 3J2
Canada

www.TorusPower.com

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