



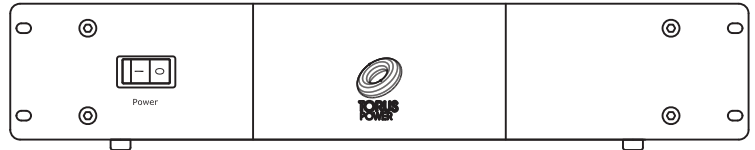
**TORUS
POWER™**

Isolate.

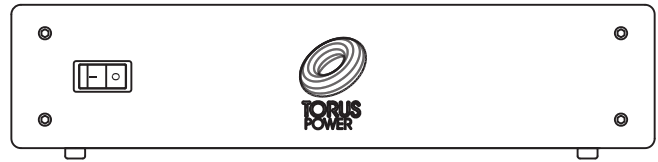
Protect.

Inspire!

Owner's Manual



19" Pro Series Rack Mount (RK) Faceplate

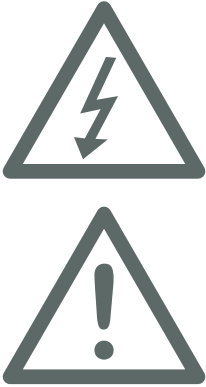


17" Consumer Series (C) Faceplate
Available in Black (B) and Silver (S) Colours

Power Conditioners Audio / Video Power Isolation Units Rack Mount / Consumer Series

Model Number	Description	Input	Output	Output Connector
RM 5 RK				6 outlets
RM 5 CB	Single 5A	120V	120V	Medical-grade
RM 5 CS				15A
RM 10 RK				8 outlets
RM 10 CB	Single 10A	120V	120V	Medical-grade
RM 10 CS				15A
RM 15 RK				10 outlets
RM 15 CB	Single 15A	120V	120V	Medical-grade
RM 15 CS				15A

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. 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.

12. 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.

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. It is recommended that component power switch remains 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.



≥18 kg (39.7 lb)



≥32 kg (70.5 lb)



≥55 kg (121.2 lb)



Description

Torus Power PIUs (Power Isolation Units) combines the best surge suppression with unique toroidal transformer technologies from PLITRON to provide the ultimate in AC power conditioning and protection for sensitive audio and video equipment applications.

PIUs use ZeroSurge® patented series-mode surge removal filters to absorb dangerous voltage surges and safely dissipate them without using failure-prone MOVs (metal oxide varistors). Also, unlike MOV-based protection, voltage surges are not shunted to ground.

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-impedance output with balanced high-power primary input provides the most unconstrained, yet protected, energy source available to your equipment.

Shipping Carton & Packing Material

Please keep the original shipping box and all packing material. This will ensure the PIU 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 PIU only in the original packing material, as the unit is not insurable by carriers otherwise.

Placement & Ventilation

Torus Power PIUs are extremely efficient devices, however, they are also very high-power devices, and must be adequately cooled.

PIUs have ventilation slots on the base, side panels and the cover. Maintain at least 2.5cm 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 PIU directly above heat-generating equipment.

Maintain at least 15cm behind the PIU for adequate wiring space.

Warranty

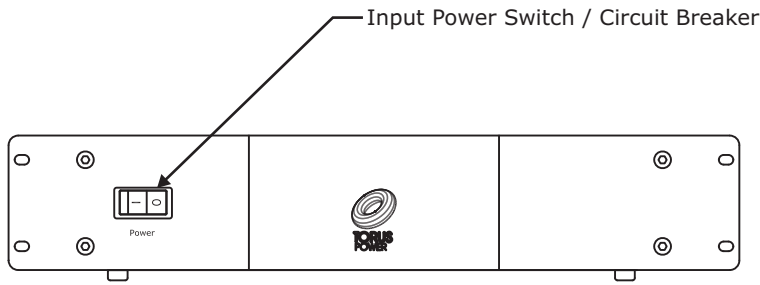
Torus Power products are warranted to be free from manufacturing defects for five years from the original date of sale. This includes parts, labour and return shipping to the first registered owner and all subsequent registered owners. Warranty coverage is extended to applicable products registered or 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.

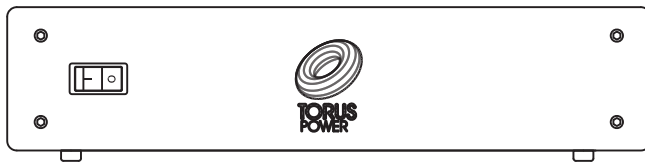
This warranty is considered void if the defect, malfunction or failure of the product or any component part was caused by damage (not resulting from a defect or malfunction) or abuse while in the possession of the customer. Failure to fully comply with Torus Power operating instructions, voids the warranty.



Front Panel Layout



Single 5A, 10A, 15A
19" Pro Series Rack Mount Faceplate
Model Numbers RM 5 RK,
RM 10 RK and RM 15 RK



Single 5A, 10A, 15A
17" Consumer Series Faceplate
Model Numbers RM 5 CB, RM 5 CS,
RM 10 CB, RM 10 CS, RM 15 CB and RM 15 CS

Circuit Protection

The front panel power switch is also a circuit breaker. As a circuit breaker, it prevents excessive current from entering the PIU.

When the power is on, the switch is illuminated. When the breaker trips, the switch returns to its "off" position.

Thermal Protection

Torus PIUs will shut-down if internal unit temperature reaches excessive levels.

Input Current Rating

Per UL, CSA and National Electrical codes, devices with line cords and plugs must not consume more than 80% of a branch circuit's rating.

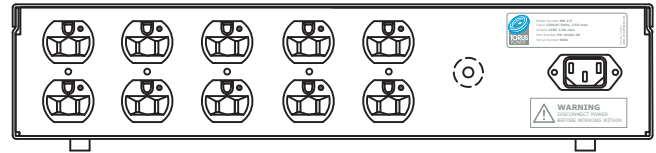
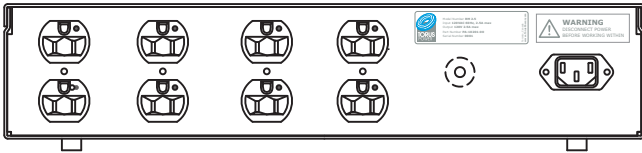
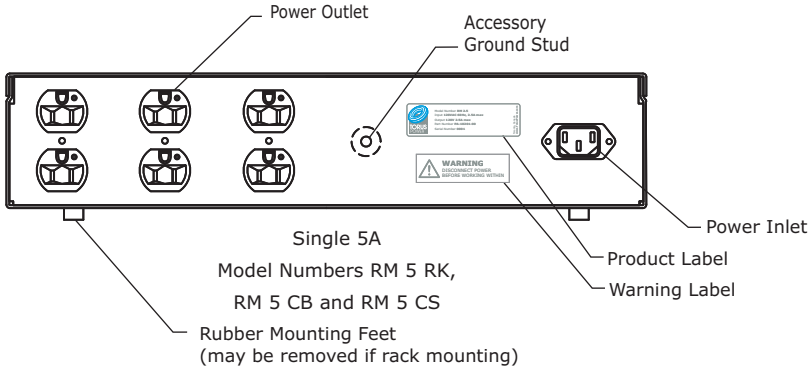
While Torus Power Isolation Units are designed to handle well beyond these limits, they must be marked with a maximum input current that satisfies the requirements.

Electrical Specifications

Model Number	Input Voltage Nominal	Input Current Limiting	Load Current Capability			Input Current Rating (see note above)
			½ cycle	1 second	10 seconds	
RM 5 RK	120VAC, 60Hz	5A	50A	40A	15A	5A
RM 5 CB	Range +/- 10% voltage 57-63Hz	Circuit Breaker				
RM 5 CS		Front Panel				
RM 10 RK		10A	100A	80A	30A	10A
RM 10 CB		Circuit Breaker				
RM 10 CS		Front Panel				
RM 15 RK		16A	300A	150A	75A	12A
RM 15 CB		Circuit Breaker				
RM 15 CS		Front Panel				



Rear Panel Layout



Wall Receptacles

Torus PIUs are high-power products. The outlets they are plugged into should be sufficient to provide the current to operate them without tripping circuit breakers within your junction panel.

Mechanical Specifications

Model Number	Input Connector (Rear Panel)	Line Cord (included)	Suggested Wall Receptacle	Output Connector (Rear Panel)	Weight	Size, mm (w x d x h)
RM 5 RK	IEC 15A	N5/15, 14AWG	Standard outlet	Qty 3 (6 outlets)	13.5 kg	483 x 268 x 102
RM 5 CB	Inlet	C13, 15A/125V	NEMA 5-15R	Medical-grade 15A	13.0 kg	432 x 268 x 105
RM 5 CS			15A - 125V			
RM 10 RK				Qty 4 (8 outlets)	16.4 kg	483 x 268 x 102
RM 10 CB				Medical-grade 15A	15.7 kg	432 x 268 x 105
RM 10 CS						
RM 15 RK				Qty 5 (10 outlets)	20.9 kg	483 x 268 x 102
RM 15 CB				Medical-grade 15A	20.2 kg	432 x 268 x 105
RM 15 CS						

Height includes rubber mounting feet.

Line Cords

Standard 15A 120V

Equipment end: IEC C13
Plug: 5-15P, Straight Blade, 2 pole, 3-wire grounding, 15A 125V
Cord: 3 x 14AWG
Length: 2.5 m



Torus Power products are marketed worldwide through Plitron Manufacturing Inc.

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