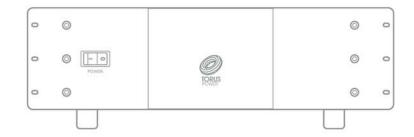


Owner's Manual



Power Conditioners Audio / Video Power Isolation Units Rack Mount / Standalone

Model Number	Description	Input	Output
			Connector
			10 outlets
A024-HCB-A1AB	Balanced 20A	240V or 208V	Medical-grade
			20A
			10 outlets
A018-HCB-A1AA	Balanced 15A	240V or 208V	Medical-grade
			15A
			10 outlets
A024-ACB-A1AB	Single 20A	120V	Medical-grade
			20A
			10 outlets
A018-ACB-A1AA	Single 15A	120V	Medical-grade
			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.

CAUTION! To reduce the risk of electrical shock, ensure the voltage selector switch is selected to the appropriate supply voltage.

CAUTION! To reduce the risk of electrical shock, ensure the fuses are replaced with the appropriate fuse according to the unit markings.

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. Carts & Stands—The device should only be used on carts or stands recommended by the manufacturer.

8. 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.

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

11. 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.

12. Cleaning—The device should be cleaned in accordance with manufacturer's instructions.

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

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

15. 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.

16. 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.

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

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

19. **CAUTION** Some of the units in this series are heavier than 18 kg (39.7 lb). Use safe practices when lifting.





≥32 kg (70.5 lb)



≥55 kg (121.2 lb)



Power Conditioners

Audio / Video Power Isolation Units

Description

Torus Power PIUs (Power Isolation Units) combine 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.

Units are available in either single 120V input, or dual 120V (balanced) input.

Balanced input power from two standard 120V phases provides high input power and noise cancellation. Using balanced input power provides the benefits of symmetrical power without the requirement to use GFCI (ground-fault circuit interruption) outlets. GFCIs are prone to nuisancetrips. The toroidal isolation transformer steps-down the 240V input to 120V to power equipment. (Where 240V balanced input is unavailable, units may be configured for 208V operation.) 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 proper 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 1" distance from each of these surfaces to anything else. Should your installation conditions be constricted, additional forced air-cooling may be necessary.

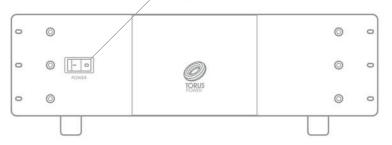
Do not install the PIU directly above heat-generating equipment.

Maintain at least 6" behind the PIU for adequate wiring space.



Front Panel Layout

__Illuminated Power Switch / Circuit Breaker



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.

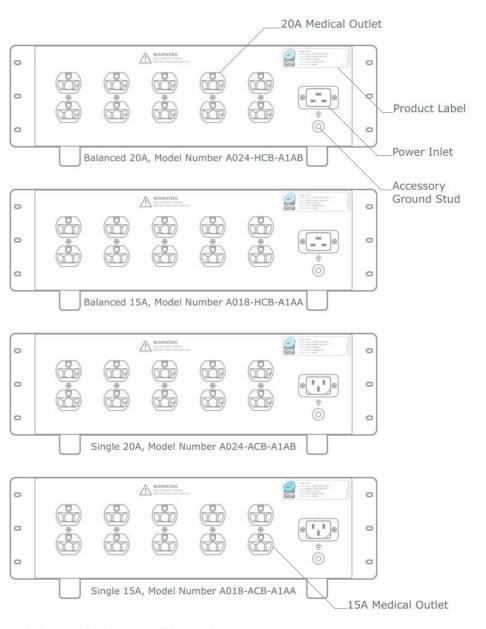
While Torus Power Isolation Units are designed to handle well beyond these limits, they must be marked with a maximum input current that satisfies the requirements.

Electrical Specifications

Model Number	Input Voltage	Input	Load Current Capability			Input Current
	Nominal	Current Limiting				Rating (see note above)
			1/2 cycle	1 second	10 seconds	
A024-HCB-A1AB	Selectable 240VAC	10A	600A	300A	150A	10A
	(2 x 120VAC, balanced)	Circuit Breaker				
	or 208VAC.	Front Panel				
A018-HCB-A1AA	Factory wired for 240VAC 60Hz	8A	500A	250A	125A	7.5A
	Range +/- 10% voltage	Circuit Breaker				
	57-63Hz	Front Panel				
A024-ACB-A1AB	120VAC, 60Hz	20A	400A	200A	100A	16A
	Range +/- 10% voltage	Circuit Breaker				
	57-63Hz	Front Panel				
A018-ACB-A1AA		15A	300A	150A	75A	12A
		Circuit Breaker				
		Front Panel				
TODUC						
TORUS POWER Owner's Man	ual Power Conditioners		Power Isolation Units		WWW Rack Mount / Standalon	.TorusPower.com

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Rear Panel Layout



Mechanical Specifications

Owner's Manual

Power Conditioners

Model Number Input Line Cord Suggested Output Weight Size Connector (included) Wall (w" x d" x h") Connector (Rear Panel) Receptacle (Rear Panel) A024-HCB-A1AB IEC 20A N6/15, 14AWG **NEMA 6-15R** Qty 5 (10 outlets) 89 lbs 19 x 15.5 x 5.25 15A - 250V Medical-grade Inlet C19, 15A/250V duplex 20A A018-HCB-A1AA 19 x 15.5 x 5.25 IEC 20A N6/15, 14AWG **NEMA 6-15R** Qty 5 (10 outlets) 77 lbs. 15A - 250V Inlet C19, 15A/250V Medical-grade duplex 15A A024-ACB-A1AB IEC 20A N5/20, 12AWG NEMA 5-20R Qty 5 (10 outlets) 95 lbs. 19 x 15.5 x 5.25 C19, 20A/125V Inlet 20A - 125V Medical-grade duplex 20A A018-ACB-A1AA IEC 15A N5/15, 14AWG Qty 5 (10 outlets) 19 x 15.5 x 5.25 NEMA 5-15R 76 lbs. Inlet 15A - 125V C13, 15A/125V Medical-grade duplex 15A ORUS www.TorusPower.com

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.

Dedicated circuits are recommended. Balanced input products, 240VAC, require dual 120V phases (2 pole, 3-wire). Wall outlets for 240VAC are rated at 250V and will likely require special installation. Dedicated outlets, or any household or facility wiring should be installed by a licenced electrician to local codes.

Pictured below are suggested receptacle types for installation.



NEMA 6-15R for Balanced 15A & 20A units



NEMA 5-20R for Single 20A unit



Rack Mount / Standalo

NEMA 5-15R for Single 15A unit

Audio / Video Power Isolation Units

Line Cords

Standard 15A 240/208V

Standard 15A 120V

3-wire grounding, 15A 125V

Cord: 3 x 14AWG

Length: 2.5 m

Used on: Model Numbers A024-HCB-A1AB and A018-HCB-A1AA Equipment end: IEC C19 Plug: 6-15P, Straight Blade, 2 pole, 3-wire grounding, 15A 250V Cord: 3 x 14AWG Length: 2.5 m

Used on: Model Number A018-ACB-A1AA

Equipment end: IEC C13 Plug: 5-15P, Straight Blade, 2 pole,



Standard 20A 120V

Used on: Model Number A024-ACB-A1AB Equipment end: IEC C19 Plug: 5-20P, Straight Blade, 2 pole, 3-wire grounding, 20A 125V Cord: 3 x 12AWG Length: 2.5 m

Special 20 to 15A 120V

Allows a 20A unit to be plugged into a conventional 15A outlet. Used on: Model Number A024-ACB-A1AB Equipment end: IEC C19 Plug: 5-15P, Straight Blade, 2 pole, 3-wire grounding, 15A 125V Cord: 3 x 12AWG Length: 2.5 m

Part Number: PA-09756-00



Torus Power products are warranted to be free from manufacturing defects for a minimum of 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 Bryston Limited. For sales contact jamestanner@bryston.ca www.bryston.ca



www.TorusPower.com

Torus Power PO Box 30030 Toronto, ON M3J 3L6 Canada 416-667-8473

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