

R2432UL Series UL Listed Rack Mount CCTV Power Supplies

Installation Guide

Models Include:

R2432300UL

- 24VAC @ 12.5A (300VA) or
28VAC @ 10A (280VA).
- *Thirty-Two (32) Fuse Protected Outputs.*

R2432600UL

- 24VAC @ 25A (600VA) or
28VAC @ 20A (560VA).
- *Thirty-Two (32) Fuse Protected Outputs.*

R2432300ULCB

- 24VAC @ 12.5A (300VA) or
28VAC @ 10A (280VA).
- *Thirty-Two (32) PTC Protected Outputs.*

R2432600ULCB

- 24VAC @ 25A (600VA) or
28VAC @ 20A (560VA).
- *Thirty-Two (32) PTC Protected Outputs.*



Rev. 020504




More than just power.™

Overview:

Altronix R2432UL Series Rack Mount CCTV Power Supplies provide 24VAC or 28VAC distributed via thirty-two (32) fuse or PTC protected outputs for powering CCTV cameras, heaters and other video accessories.

Thirty-Two (32) Output Rack Mount Configuration Reference Chart:

Altronix Model Number	Output Voltage (VAC)	Total Output Current (Power)	Number of Outputs	PTC Protected auto-resettable Outputs (Class 2 power-limited for Dry locations, Class 3 for Wet locations)	Fuse Protected Class 1 Outputs	Individual Output Current (max per output, not to exceed total output current)	Fuse Ratings	115VAC 50/60Hz Input Current	Agency Listings
R2432300UL	24VAC	12.5A	32	-	✓	3.5A	3.5A	3A	
	28VAC	10A							
R2432300ULCB	24VAC	12.5A	32	✓	-	2.5A	-	3A	
	28VAC	10A							
R2432600UL*	24VAC	25A	32	-	✓	3.5A	3.5A	6A	
	28VAC	20A							
R2432600ULCB*	24VAC	25A	32	✓	-	2.5A	-	6A	
	28VAC	20A							

*24VAC models: Outputs 1-16 provide 12.5A (300VA) max. Outputs 17-32 provide 12.5A (300VA) max.

*28VAC models: Outputs 1-16 provide 10A (280VA) max. Outputs 17-32 provide 10A (280VA) max.

Specifications:

Agency Listings:

- UL Listed for Commercial CCTV Equipment (UL2044).
- cUL Listed - CSA Standard C22.2 No.1-98, Audio, Video and Similar Equipment.
- CE - European Conformity

Input:

- 115VAC, 50/60Hz.

Output:

- Thirty-two (32) fuse or PTC protected outputs.
- 24VAC or 28VAC supply current.
- Outputs are rated @ 3.5A (fused) or 2.5 (PTC).
- Surge suppression.

Visual Indicators:

- Thirty-two (32) individual power LED indicators.
- Illuminated master power disconnect circuit breaker with manual reset.

Features:

- 3-wire grounded line cord.
- Removable terminal blocks with locking screw flange.
- Spare fuses provided.

Mechanical:

- 2U rack mount chassis for use in a standard EIA 19" rack.
- Enclosure Dimensions (H x W x D approx.): 3.26" x 19.125" x 8.5" (83mm x 486mm x 216mm).

Installation Instructions:

1. The unit is factory set for 24VAC operation.
For 28VAC operation adjust unit prior to mounting and applying power as follows:
 - a. Open bottom of the unit by removing six (6) screws (*Rack Mechanical Drawing & Dimensions, pg. 4*).
 - b. Change the wire position so that the black wire [28V] is connected to the terminal marked [P] and the yellow wire [24V] is connected to the terminal marked [S] (*Fig. 1d, pg. 3*).
 - c. After securing all wires for proper voltage place bottom panel back on the unit and fasten with the six (6) screws.
2. Mount unit in the desired rack location (Space unit at least 3" from any video monitors).
Do not obstruct side air vents.
3. Set power disconnect circuit breaker to the OFF position (*Fig. 1c, pg. 3*).
4. Plug power cord into a grounded 115VAC 50/60 Hz receptacle (*Fig. 1b, pg. 3*), ground should be connected as indicated in (*Fig. 1e, pg. 3*).
5. Set power disconnect circuit breaker to the RESET (ON) position and measure output voltage before connecting devices (*Fig. 1c, pg. 3*). This helps avoiding potential damage. All terminals with common suffix (P) "1P, 2P..." are the same polarity.
6. Set power disconnect circuit breaker to the OFF position (*Fig. 1c, pg. 3*).
7. Connect devices to the removable terminal blocks marked [1P & 1N] through [8P & 8N] (*Fig. 1a, pg. 3*).
When wiring is completed on the terminal blocks, they can be locked down by tightening screw flanges.
8. Upon completion of the wiring, set power disconnect circuit breaker to the RESET (ON) position (*Fig. 1c, pg. 3*).

9. Green power LEDs on faceplate will illuminate when AC power is present. When an output is in a trouble condition (blown fuse or tripped PTC) the corresponding LED will not be illuminated (*Fig. 1, pg. 3*):
 - a. Blown fuse (R2432300UL and R2432600UL) - Set power switch on the back of the unit to the OFF position (*Fig. 1c, pg. 3*). Remove faceplate to access fuses. Replace with fuses rated @ 3.5A/250VA (Altronix model # **Fuse1**).
 - b. Tripped PTC (R2432300ULCB and R2432600ULCB) - to reset PTC, set power switch on the back of the unit to the OFF position. After approximately 30 sec. set power switch to the ON (RESET) position (*Fig. 1c, pg. 3*).
 10. Power switch with built-in circuit breaker:

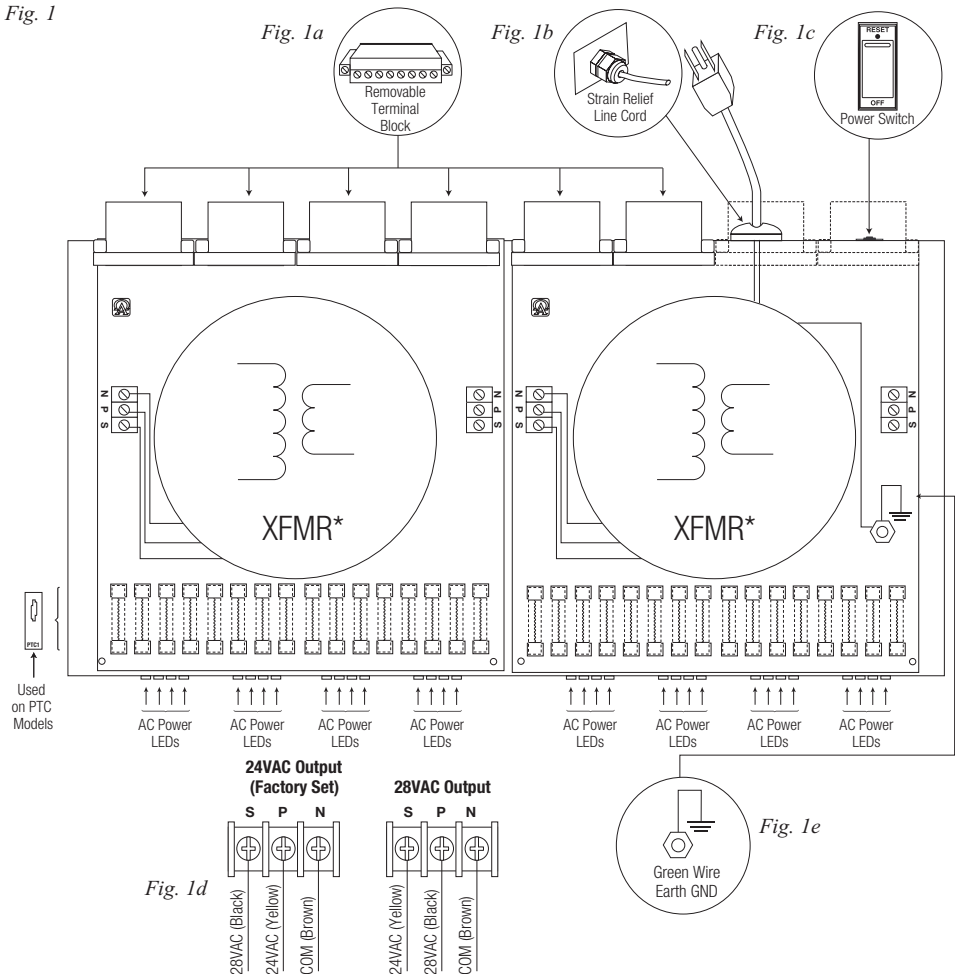
OFF position - Switch not illuminated. Outputs not powered.
 RESET (ON) position - Switch illuminated. Outputs powered.
 Circuit breaker tripped - Switch not illuminated. Power LEDs on faceplate are not illuminated. Outputs not powered.

To reset circuit breaker set power switch to the ON (RESET) position (*Fig. 1c, pg. 3*).
- Note:** Do not exceed units electrical load ratings as indicated in reference chart (*pg. 2*).
 Do not place mechanical load on unit. Data racks should always be properly ventilated.
 Unit is designed optimally for normal data room office installations.

CAUTION: Equipment to be installed / serviced by authorized / trained personnel only.
 Shut branch circuit power before installing / servicing equipment.

WARNING: To reduce the risk of fire or electric shock, do not expose the unit to rain or moisture.
 This installation should be made by qualified service personnel and should conform to the National Electrical Code and all local codes.

Fig. 1





For fuse protected models:

Replace fuses with the same type and rating 3.5A/250V.



The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of an insulated DANGEROUS VOLTAGE within the product's enclosure that may be of sufficient magnitude to constitute an electric shock.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



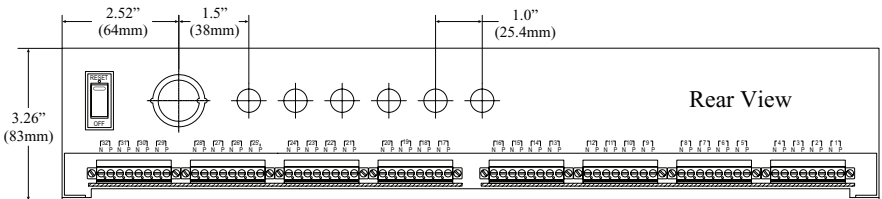
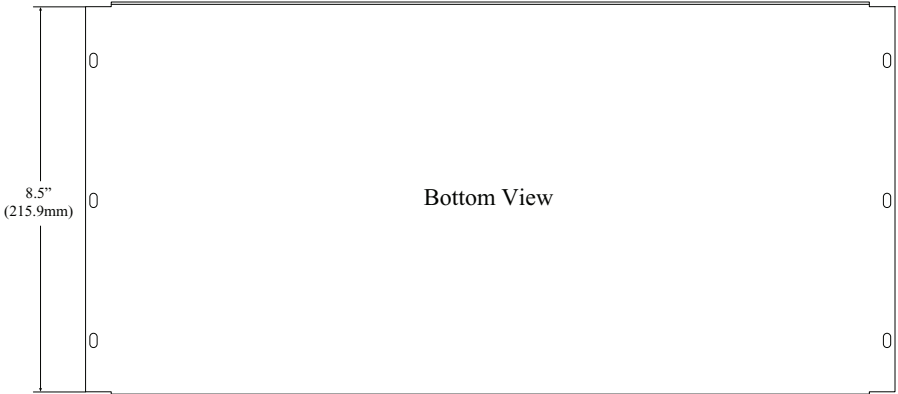
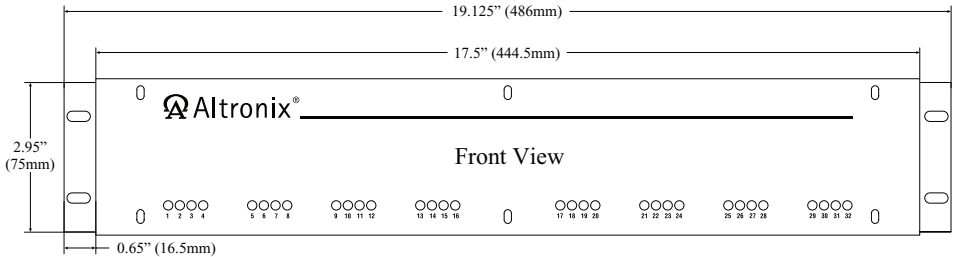
CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION: To reduce the risk of electric shock do not open enclosure. There are no user serviceable parts inside. Refer servicing to qualified service personnel.

Rack Mechanical Drawing and Dimensions:

3.26" x 19.125" x 8.5" (83mm x 486mm x 216mm)



Altronix is not responsible for any typographical errors.

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IIR2432ULSeries

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