

# Isolated Series

UL Listed

Rack Mount CCTV Power Supplies

## Models Include:

### R248ULi

- 24VAC @ 12.5A (300VA) total output.
- Eight (8) 1.56A Fuse Protected Isolated Outputs

### R2416ULi

- 24VAC @ 25A (600VA) total output.
- Sixteen (16) 1.56A Fuse Protected Isolated Outputs

### R248ULCBI

- 24VAC @ 12.5A (300VA) total output.
- Eight (8) 1.56A PTC Protected Isolated Outputs

### R2416ULCBI

- 24VAC @ 25A (600VA) total output.
- Sixteen (16) 1.56A PTC Protected Isolated Outputs

## Installation Guide



Rev. 092904



More than just power.™


Installing Company: \_\_\_\_\_ Service Rep. Name: \_\_\_\_\_

Address: \_\_\_\_\_ Phone #: \_\_\_\_\_

## Overview:

Altronix Isolated Series Rack Mount CCTV Power Supplies provide 24VAC distributed via multiple fuse or PTC protected isolated outputs for powering CCTV cameras, heaters, and other video accessories.

## UL Listed Isolated 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 | Output Current (max per output) | Fuse Ratings | Primary In-line Fuse Ratings | 115VAC 50/60Hz Input Current | Agency Listings  |
|-----------------------|----------------------|------------------------------|-------------------|--|--------------------------------|---------------------------------|--------------|------------------------------|------------------------------|--|
| R248ULi               | 24VAC                | 12.5A (300VA)                | 8                 | –  | ✓                              | 1.56A                           | 3.5A         | 5A/250V                      | 2.7A                         |  |
| R248ULCBI             | 24VAC                | 12.5A (300VA)                | 8                 | ✓  | –                              | 1.56A                           | –            | 5A/250V                      | 2.7A                         |  |
| R2416ULi*             | 24VAC                | 25A (600VA)                  | 16                | –  | ✓                              | 1.56A                           | 3.5A         | 5A/250V                      | 5.4A                         |  |
| R2416ULCBI*           | 24VAC                | 25A (600VA)                  | 16                | ✓  | –                              | 1.56A                           | –            | 5A/250V                      | 5.4A                         |  |

\*Outputs 1-8 provide 12.5A (300VA) max. Outputs 9-16 provide 12.5A (300VA) 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:

- Individual electronically isolated outputs.
- 24VAC supply current.
- Surge suppression.

### Visual Indicators:

- Individual power LED indicators.

### Visual Indicators (cont'd):

- 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:

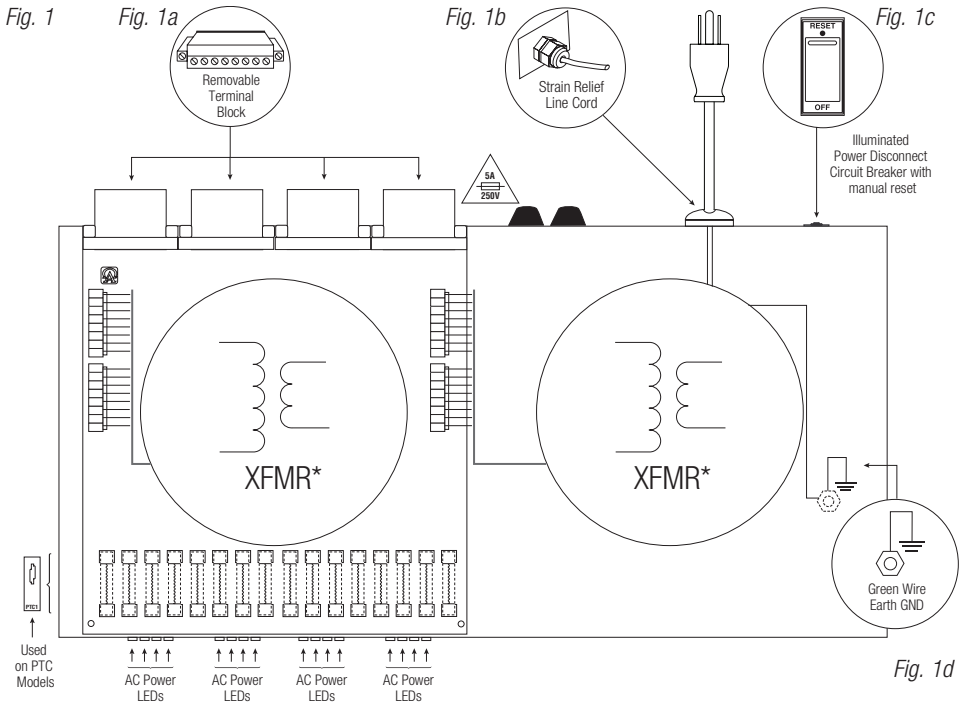
1. Mount unit in the desired rack location (Space unit at least 3" from any video monitors).
2. Set power switch on the back of the unit to the OFF position (*Fig. 1c, pg. 3*).
3. Plug power cord into a grounded 115VAC, 50/60 Hz receptacle (*Fig. 1b, pg. 3*).
4. Set power switch on the back of the unit to the ON (RESET) 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 phasing.
5. Set power switch on the back of the unit to the OFF position (*Fig. 1c, pg. 3*).
6. Connect devices to the removable terminal blocks marked [1P & 1N through 16P & 16N] (*Fig. 1a, pg. 3*).  
When wiring is completed on the terminal blocks they can be locked down by tightening screw flanges.
7. Upon completion of the wiring, set power switch on the back of the unit to the ON (RESET) position (*Fig. 1c, pg. 3*).
8. 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 (R248ULi & R2416ULi) - Set power switch the on back of the unit to the OFF position (Fig. 1c, pg. 3). Remove front faceplate to access fuses. Replace with fuses rated @ 3.5A/250VA (Altronix model # Fuse1).
  - b. Tripped PTC (R248ULCbi & R2416ULCbi) - To reset PTC, set power switch on the back of the unit to the OFF position. After approximately 30 secs. set power switch to the ON (RESET) position (Fig. 1c, pg. 3).
9. 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.



**For fuse protected models:**

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



Replace primary in-line fuse with the same type and rating 5A/250V.



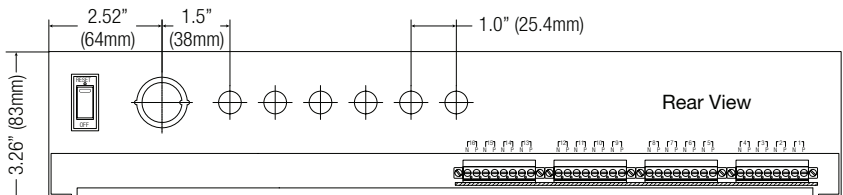
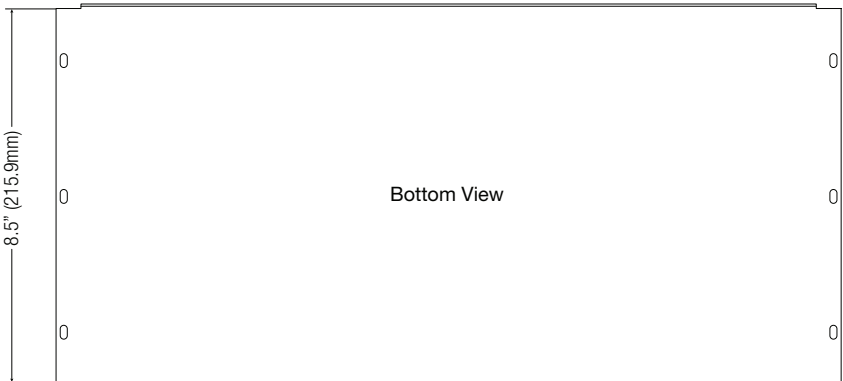
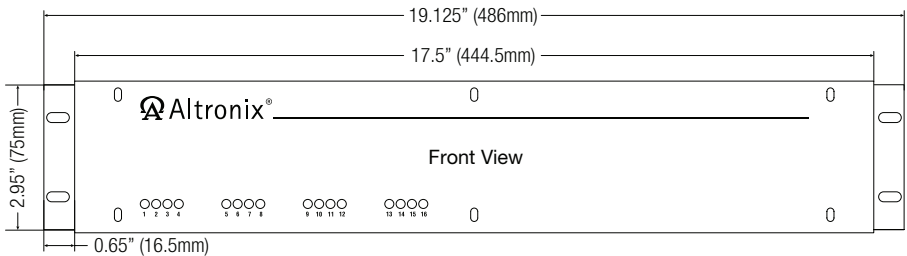
The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of an insulated DANGEROUS VOLTAGE within the product's enclosure that may be of sufficient magnitude to constitute an electric shock.



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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website: www.altronix.com | e-mail: info@altronix.com | Lifetime Warranty  
IIR248/2416 UL Listed Isolated Rack Mount Series K10U