

R248 Series

Rack Mount CCTV Power Supplies

Installation Guide

Models Include:

R248100

- 24VAC @ 4A (100VA) or
28VAC @ 3.5A (100VA).
- Eight (8) Fuse Protected Outputs.

R248300

- 24VAC @ 14A (300VA) or
28VAC @ 12.5A (300VA).
- Eight (8) Fuse Protected Outputs.

R248600

- 24VAC @ 28A (600VA) or
28VAC @ 25A (600VA).
- Eight (8) Fuse Protected Outputs.

R248100CB

- 24VAC @ 4A (100VA) or
28VAC @ 3.5A (100VA).
- Eight (8) PTC Protected Outputs.

R248300CB

- 24VAC @ 14A (300VA) or
28VAC @ 12.5A (300VA).
- Eight (8) PTC Protected Outputs.

R248600CB

- 24VAC @ 28A (600VA) or
28VAC @ 25A (600VA).
- Eight (8) PTC Protected Outputs.

Overview:

Altronix R248 Series Rack Mount CCTV Power Supplies provide 24VAC or 28VAC distributed via eight (8) fuse or PTC protected outputs for powering CCTV cameras, heaters and other video accessories.

Eight (8) Output R248 Rack Mount Configuration Reference Chart:

Altronix Model Number	Output Voltage (VAC)	Total Output Current (Power)	Number of Outputs	PTC Protected Auto-Resettable Outputs	Fuse Protected Outputs	Individual Output Current (max per output - not to exceed total output current)	115VAC, 50/60Hz Input Current
R248100	24VAC	4A	8	—	✓	3.5A	2.9A
	28VAC	3.5A					
R248100CB	24VAC	4A	8	✓	—	2.5A	2.9A
	28VAC	3.5A					
R248300	24VAC	14A	8	—	✓	3.5A	3A
	28VAC	12.5A					
R28300CB	24VAC	14A	8	✓	—	2.5A	3A
	28VAC	12.5A					
R248600	24VAC	28A	8	—	✓	3.5A	6A
	28VAC	25A					
R248600CB	24VAC	28A	8	✓	—	2.5A	6A
	28VAC	25A					

Specifications:

Input:

- 115VAC, 50/60Hz.

Output:

- Eight (8) fuse or PTC protected outputs.
- 24VAC or 28VAC supply current.
- Outputs are rated @ 3.5A (fuse) or 2.5A (PTC).
- Surge suppression.

Visual Indicators:

- Eight (8) power LEDs.
- Illuminated master power disconnect circuit breaker with manual reset.

Features:

- Removable terminal blocks with locking screw flange.
- Spare fuses provided.
- Unit maintains camera synchronization.

Mechanical:

- 2U rack mount chassis for use in 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).

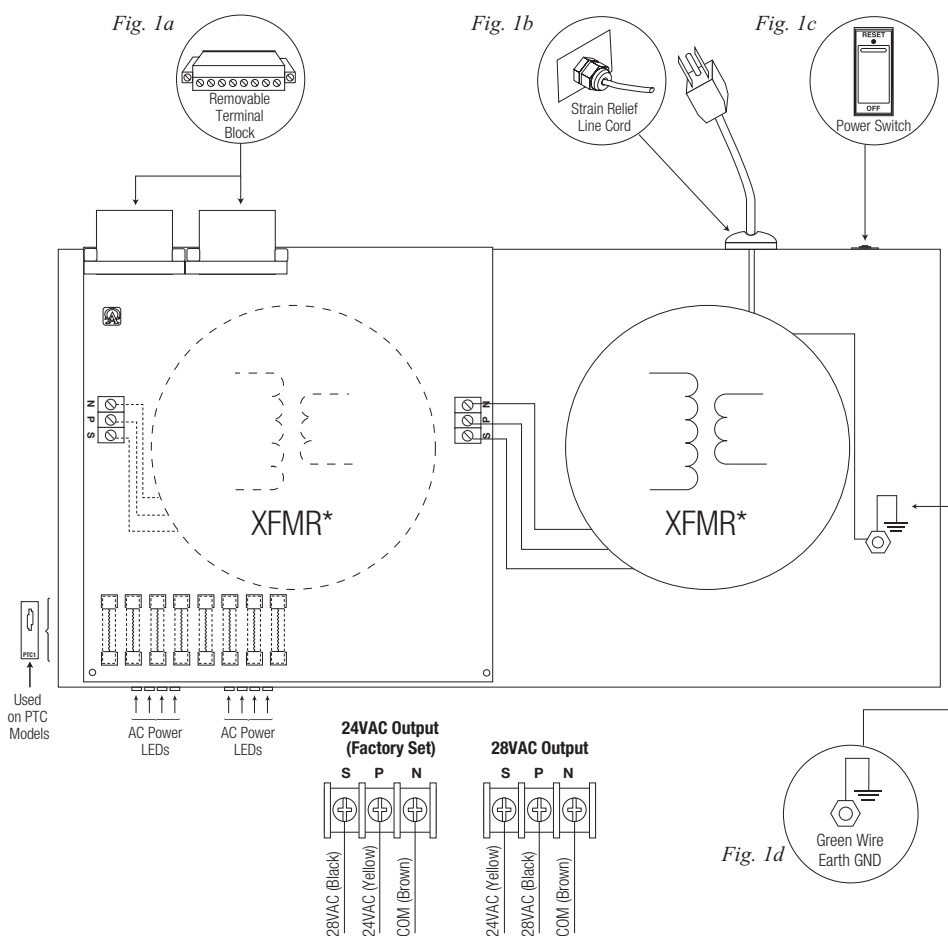
Installation Instructions:

1. Mount unit in the desired rack location (Space unit at least 3" from any video monitors). Do not obstruct side air vents.
2. Set power disconnect circuit breaker to OFF position (*Fig. 1c, pg. 3*).
3. All units are factory set for 24VAC operation.
For 28VAC operation, adjust unit prior to mounting and applying power as follows:
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. 1, 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. 1d, pg. 3*.
5. Set power disconnect circuit breaker to RESET (ON) position (*Fig. 1c, pg. 3*).
6. Measure output voltage before connecting devices. This helps avoiding potential damage.
All terminals with common suffix (P) "1P, 2P..." are the same polarity.
7. Set power disconnect circuit breaker to OFF position (*Fig. 1c, pg. 3*).
8. Connect devices to the removable terminal blocks marked [1P & 1N] through [8P & 8N] (*Fig. 1a, pg. 3*).
When wiring is completed on terminal blocks, they can be locked down by tightening screw flanges.
9. Upon completion of wiring, set power disconnect circuit breaker to RESET (ON) position (*Fig. 1c, pg. 3*).


10. Green power LEDs on faceplate will illuminate when 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 - Set power disconnect circuit breaker on the 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 - To reset PTC, set power disconnect circuit breaker on back of unit to the OFF position. After approximately 30 secs. set power disconnect circuit breaker to the ON (RESET) position (*Fig. 1c, pg. 3*).
11. Illuminated power disconnect circuit breaker with manual reset:
OFF position - Switch not illuminated. Outputs not powered.
RESET (ON) position - Circuit breaker illuminated. Outputs powered.
Circuit breaker tripped - Circuit breaker is not illuminated. Power LEDs on faceplate are not illuminated. Outputs not powered.
To reset circuit breaker set power disconnect circuit breaker to RESET (ON) position (*Fig. 1c, pg. 3*).


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

Fig. 1



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.

 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)

