R2416220 Series
Rack Mount
CCTV Power Supplies

Models Include:

R2416220
- 24VAC @ 8A (200VA) or 28VAC @ 7A (200VA).
- Sixteen (16) Fuse Protected Outputs.

R2416CB220
- 24VAC @ 8A (170VA) or 28VAC @ 7A (170VA).
- Sixteen (16) PTC Protected Outputs.

Installation Guide

CE

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More than just power.™

Overview:

Altronix R2416220 Series Rack Mount CCTV Power Supplies provide 24VAC or 28VAC distributed via sixteen (16) fuse or PTC protected outputs for powering CCTV cameras, heaters and other video accessories.

Sixteen (16) Output Rack Mount Configuration Reference Chart:

Altronix Model Number	Output Voltage (VAC)	Total Output Current (Power)	Number of Outputs	PTC Protected Outputs (auto-resettable)	Fuse Protected Outputs	Output Current (max per output)	220VAC 50/60Hz Input Current
R2416220	24	8A	16	–	✓	3.5A	1A
	28	7A					
R2416CB220	24	8A	16	✓	–	2.5A	1A
	28	7A					

Specifications:

Agency Listings:
• CE European Conformity.

Input:
• 220VAC, 50/60Hz.

Output:
• Sixteen (16) fuse or PTC protected outputs.
• 24VAC or 28VAC supply current.
• Outputs are rated @ 3.5A (fuse) or 2.5A (PTC).
• Surge suppression.

Visual Indicators:
• Sixteen (16) individual power LED indicators.
• Illuminated power disconnect circuit breaker with manual reset.

Features:
• Unit maintains camera synchronization.
• Ease of installation saves time and eliminates costly labor.
• Removable terminal blocks with locking screw flanges.

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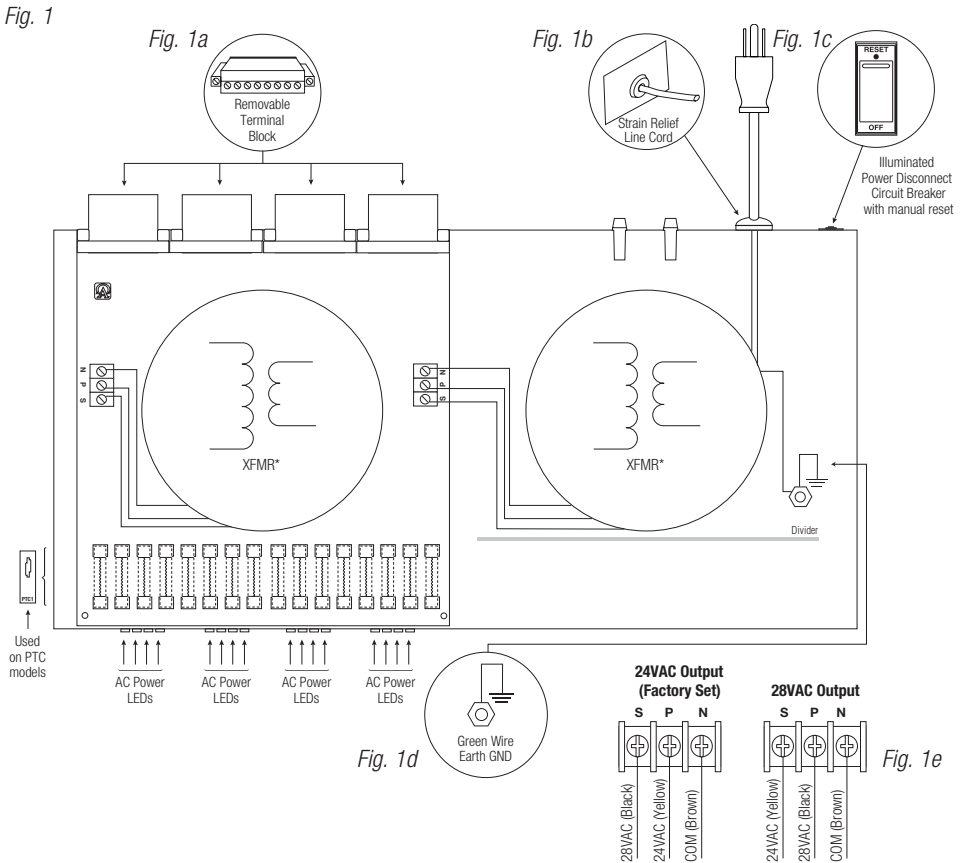 3.26" x 19.125" x 8.5" (83mm x 486mm x 216mm)

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. 1e, 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 switch on the back of unit to the OFF position *(Fig. 1c, pg. 3)*.
4. Plug power cord into a grounded 220VAC, 50/60 Hz receptacle *(Fig. 1b, pg. 3)*, ground should be connected as indicated in *(Fig. 1d, pg. 3)*.
5. Set power switch on the back of the unit to the ON position and measure output voltage before connecting devices *(Fig. 1c, pg. 3)*. This helps avoiding potential damage.
6. Set power switch on the back of the unit 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 terminal blocks they can be locked down by tightening screw flanges.
8. Upon completion of the wiring, set power switch on the back of the unit to the 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 (R2416220, R2416300220, and R2416600220) - Set power switch 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 (R2416CB220, R2416300220, and R2416600CB220) - 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 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 unit's electrical load ratings as indicated in *Sixteen (16) Output Rack Mount Configuration Reference Chart, pg. 2.*

Do not place mechanical load on the 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

Fig. 1a

Removable Terminal Block

Fig. 1b

Strain Relief Line Cord

Fig. 1c

RESET

OFF

Illuminated Power Disconnect Circuit Breaker with manual reset

XFMR*

XFMR*

Divider

Used on PTC models

PTC

AC Power LEDs

AC Power LEDs

AC Power LEDs

AC Power LEDs

Green Wire Earth GND

Fig. 1d

24VAC Output (Factory Set)

S   P   N

28VAC (Black)
24VAC (Yellow)
COM (Brown)

28VAC Output

S   P   N

24VAC (Yellow)
28VAC (Black)
COM (Brown)

Fig. 1e

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.
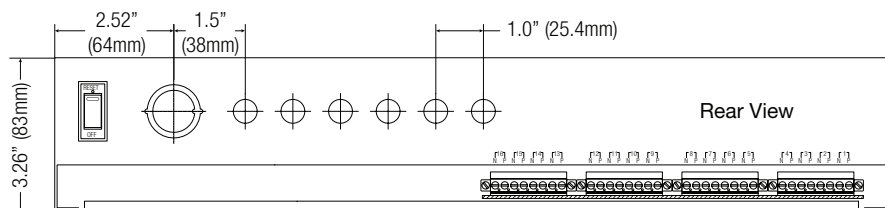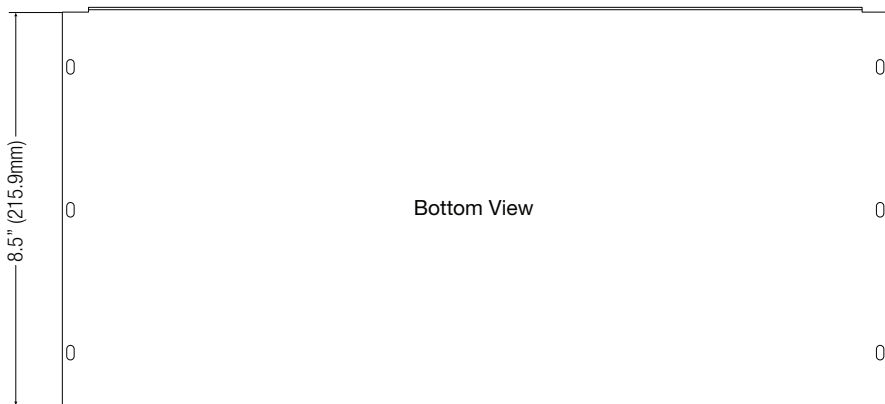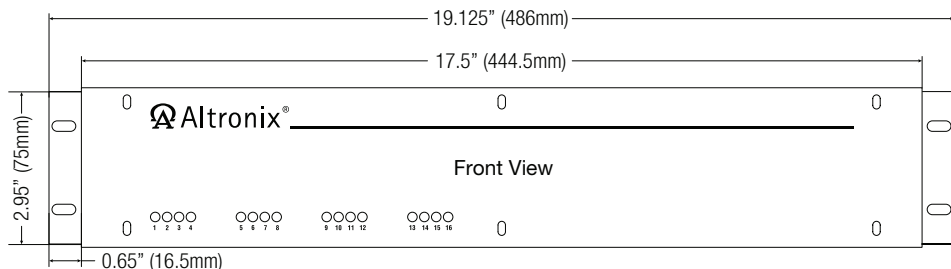
CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

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)

19.125" (486mm)

17.5" (444.5mm)

2.95" (75mm)

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Front View

1 2 3 4   5 6 7 8   9 10 11 12   13 14 15 16

0.65" (16.5mm)

8.5" (215.9mm)

Bottom View

2.52" (64mm)   1.5" (38mm)   1.0" (25.4mm)

3.26" (83mm)

Rear View

MEMBER

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