

# ALTV248220 Series

## 8-Output CCTV Power Supplies

### Models Include:

#### **ALTV248220**

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

#### **ALTV248175220**

- 24VAC @ 7.25A (175VA) or  
28VAC @ 6.25A (175VA).
- Eight (8) Fuse Protected Outputs.

#### **ALTV248300220**

- 24VAC @ 14A (350VA) or  
28VAC @ 12.5A (350VA).
- Eight (8) Fuse Protected Outputs.

#### **ALTV248300M220**

- 24VAC @ 12.5A (300VA) or  
28VAC @ 10A (300VA).
- Eight (8) Fuse Protected Outputs.

#### **ALTV248600220**

- 24VAC @ 28A (700VA) or  
28VAC @ 25A (700VA).
- Eight (8) Fuse Protected Outputs.

#### **ALTV248CB220**

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

#### **ALTV248175CB220**

- 24VAC @ 7.25A (175VA) or  
28VAC @ 6.25A (175VA).
- Eight (8) PTC Protected Outputs.

#### **ALTV248300CB220**

- 24VAC @ 14A (350VA) or  
28VAC @ 12.5A (350VA).
- Eight (8) PTC Protected Outputs.

#### **ALTV248300CBM220**

- 24VAC @ 12.5A (300VA) or  
28VAC @ 10A (300VA).
- Eight (8) PTC Protected Outputs.

#### **ALTV248600CB220**

- 24VAC @ 28A (700VA) or  
28VAC @ 25A (700VA).
- Eight (8) PTC Protected Outputs.

## Installation Guide



Rev. 040904



More than just power.™

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

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

## Overview:

Altronix ALTV248220 Series 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 ALTV248220 Reference Chart:

Altronix Model Number	Output Voltage	Total Output Current (Power)	Number of Outputs	PTC Protected Auto-Resettable Outputs	Fuse Protected Outputs	Output Current (max per output)	Main Fuse Ratings	220VAC 50/60Hz Input Current
ALTV248220	24VAC	4A	8	-	✓	3.5A	5A/ 250V	0.5A
	28VAC	3.5A		✓	-	2.5A		
ALTV248CB220	24VAC	4A		-	✓	3.5A	10A/ 250V	0.7A
	28VAC	3.5A		✓	-	2.5A		
ALTV248175220	24VAC	7.25A		-	✓	3.5A	15A/ 32V	1.35A
	28VAC	6.25A		✓	-	2.5A		
ALTV248175CB220	24VAC	7.25A		-	✓	3.5A	Two (2) 15A/ 32V	2.7A
	28VAC	6.25A		✓	-	2.5A		
ALTV248300220	24VAC	14A		-	✓	3.5A	Two (2) 15A/ 32V	2.7A
	28VAC	12.5A		✓	-	2.5A		
ALTV248300CB220	24VAC	14A		-	✓	3.5A	Two (2) 15A/ 32V	2.7A
	28VAC	12.5A		✓	-	2.5A		
ALTV248300M220	24VAC	12.5A		-	✓	3.5A	Two (2) 15A/ 32V	2.7A
	28VAC	10A		✓	-	2.5A		
ALTV248300CBM220	24VAC	12.5A		-	✓	3.5A	Two (2) 15A/ 32V	2.7A
	28VAC	10A		✓	-	2.5A		
ALTV248600220	24VAC	28A	-	✓	3.5A	Two (2) 15A/ 32V	2.7A	
	28VAC	25A	✓	-	2.5A			
ALTV248600CB220	24VAC	20A	-	✓	3.5A	Two (2) 15A/ 32V	2.7A	
	28VAC	20A	✓	-	2.5A			

## Specifications:

### Agency Listing:

- CE European Conformity.

### Input:

- 220VAC, 50/60Hz.

### Output:

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

### Features:

- Secondary fuse rated @ 10A/250V.
- AC power LED indicator.
- Illuminated power disconnect circuit breaker with manual reset.
- Unit maintains camera synchronization.
- Spare fuses provided.  
(all models w/primary and/or secondary fuses).

### Enclosure Dimensions (H x W x D approx.):

**ALTV248220, ALTV248CB220:**

8.5" x 7.5" x 3.5"  
(215.9mm x 190.5mm x 88.9mm).

**ALTV248175220, ALTV248175CB220**

**ALTV248300M220, and ALTV248300CBM220:**  
8.5" x 7.5" x 3.875"  
(215.9mm x 191mm x 98.4mm).

**ALTV248300220 and ALTV248300CB220:**  
12.25" x 7.25" x 4.5"  
(311.2mm x 184.2mm x 114.3mm).

**ALTV248600220 and ALTV248600CB220:**  
13.5" x 13" x 3.25"  
(342.9mm x 330.2mm x 82.6mm).

## Installation Instructions:

1. Mount unit in the desired location. Mark and predrill holes in the wall to line up with the top two keyholes in the enclosure. Install two upper fasteners and screws in the wall with the screw heads protruding. Place the enclosure's upper keyholes over the two upper screws, level and secure. Mark the position of the lower two holes. Remove the enclosure. Drill the lower holes and install three fasteners. Place the enclosure's upper keyholes over the two upper screws. Install the two lower screws and make sure to tighten all screws (*Enclosure Dimensions, pg. 9-12*). Secure enclosure to earth ground.
2. Slide switch on PD board to the OFF position for models ALTV248220 and ALTV248CB220 (*Fig. 1, pg. 4*). Turn OFF main switch on all other models, (*Figs. 2-5, pgs. 5-8*).
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].
4. Connect unswitched AC circuit (220VAC, 50/60Hz) as follows: Green branch wire (ground) connects to the terminal marked  $\ominus$ , Line connects to the terminal marked [L], and Neutral connects to the terminal marked [N] of the Inlet Appliance Connector. (*Figs. 1-5, pgs. 4-8*).  
Use 18 AWG or larger for all power connections.
5. Slide switch SW1 to the ON position on models ALTV248220 and ALTV248CB220 (*Fig. 1, pg. 4*). Turn main switch on all other models to the "RESET" (ON) position (*Figs. 2, 3, pgs. 5, 6*).
6. Measure output voltage before connecting devices. This helps avoiding potential damage.  
Terminals marked [1P - 8P] are positive of the same polarity.  
**CAUTION: Determine the maximum operating voltage of the equipment being powered before adjusting the output voltage.**
7. Slide switch on PD board to the OFF position for models ALTV248220 and ALTV248CB220 (*Fig. 1, pg. 4*). Turn OFF main switch on all other models, (*Figs. 2-5, pgs. 5-8*).
8. Connect devices to the terminals marked [1P - 1N] through [4P - 4N] on PD4/PD4CB board (*Fig. 5, pg. 8*) or terminals marked [1P - 1N] through [8P - 8N] on PD8/PD8CB board (*Figs. 1-4, pgs. 4-7*), carefully observing polarity.
9. Slide switch on PD board to the ON position for models ALTV248220 and ALTV248CB220 (*Fig. 1, pg. 4*). Turn main switch on all other models to the "RESET" (ON) position (*Figs. 2-5, pgs. 5-8*).
10. Green LED will illuminate when unit is powered.
11. Upon completion of wiring, secure enclosure door with screws (supplied).

**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.**

## Terminal Identification:

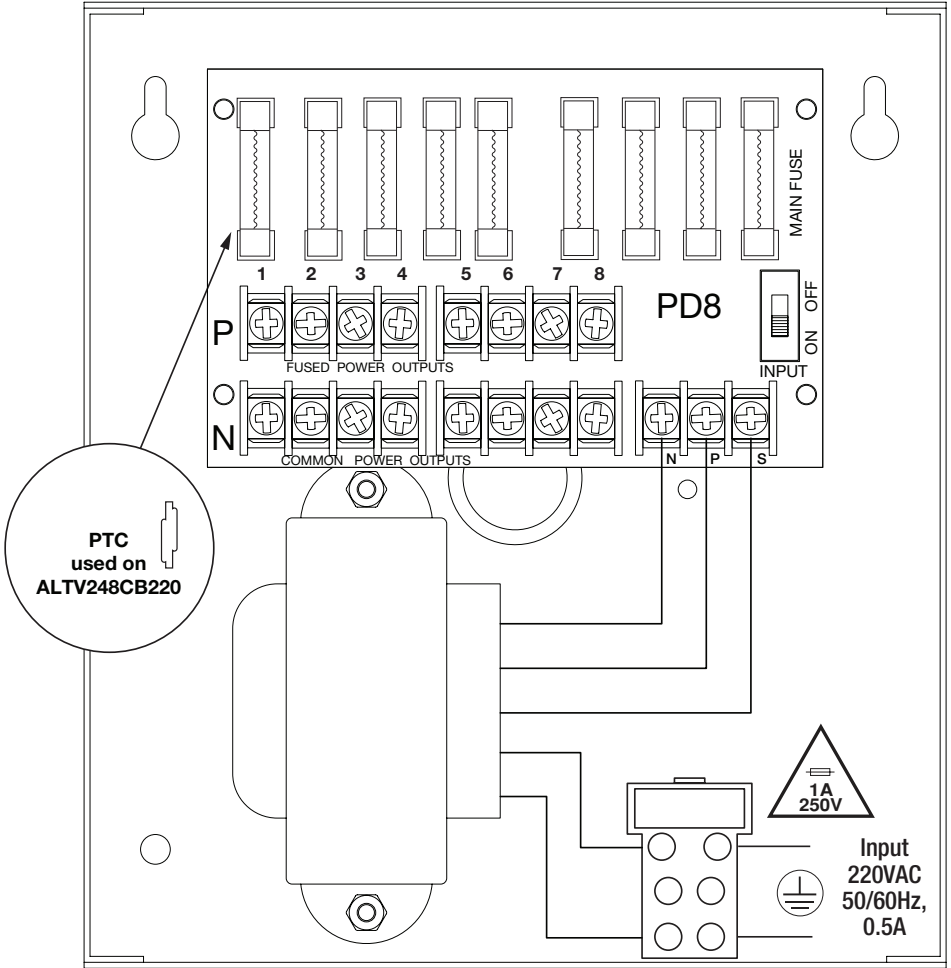
### PD4/PD4CB - Distribution Module

1P - 4P	AC output.
1N - 4N	AC output.

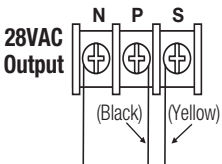
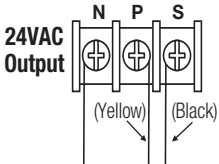
### PD8/PD8CB - Distribution Module

1P - 8P	AC output.
1N - 8N	AC output.

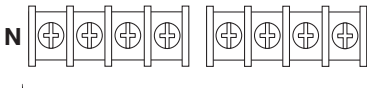
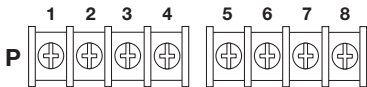
Fig. 1 - ALTV248220 and ALTV248CB220



**Voltage Selection Configuration**

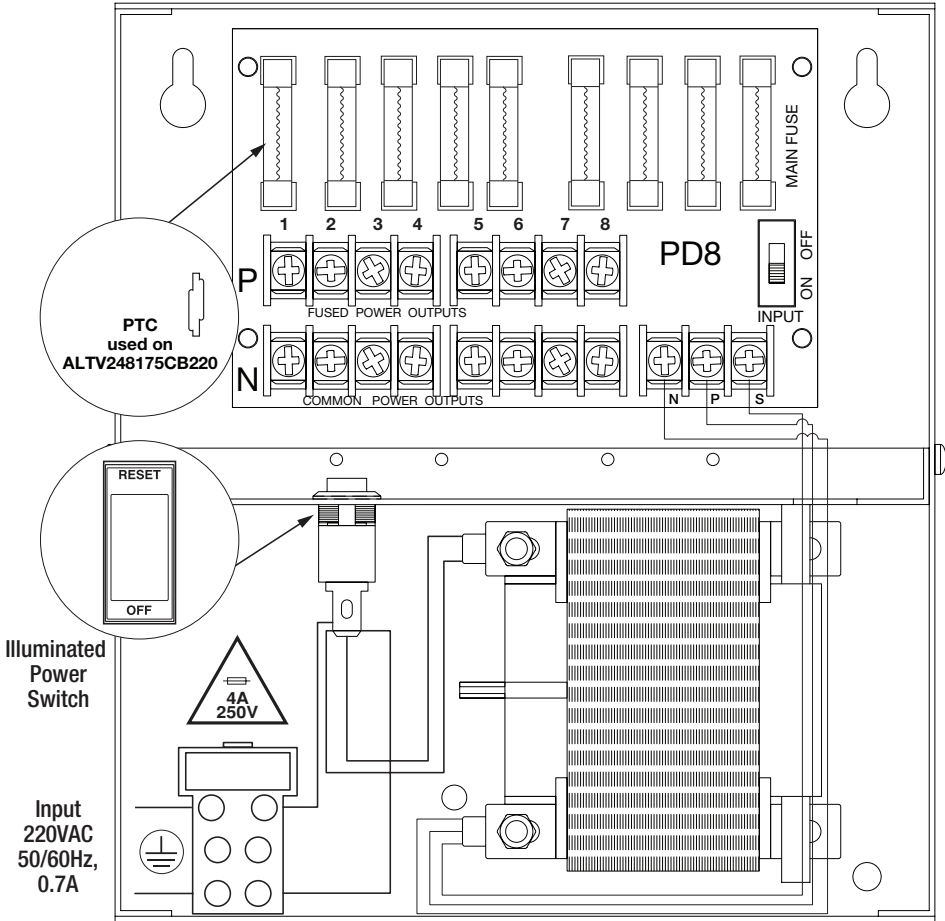


**Terminal Blocks for Fig. 1**

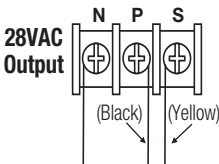
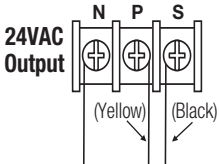


24VAC or 28VAC fuse or PTC protected outputs 1 through 8.

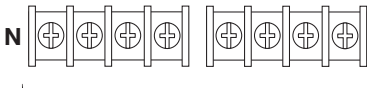
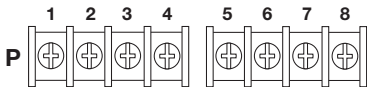
Fig. 2 - ALTV248175220 and ALTV248175CB220



**Voltage Selection Configuration**

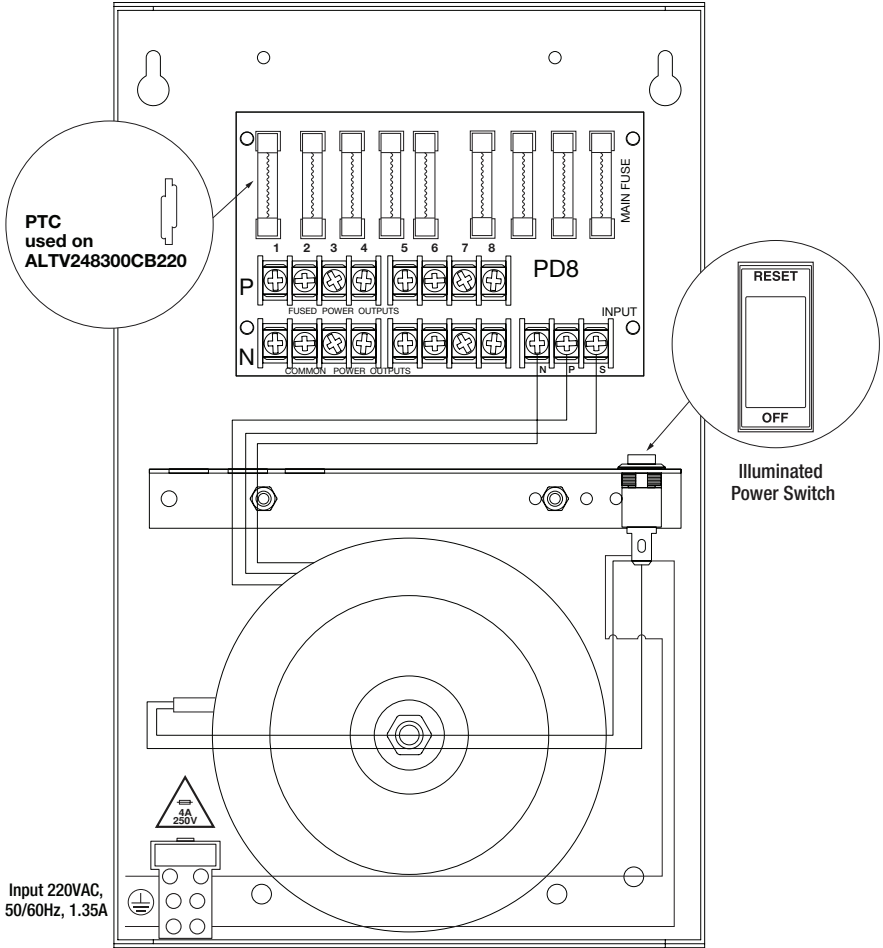


**Terminal Blocks for Fig. 2**

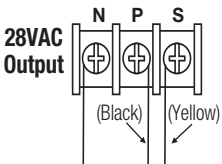
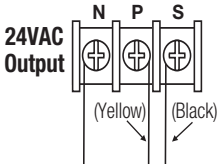


24VAC or 28VAC fuse or PTC protected outputs 1 through 8.

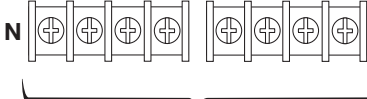
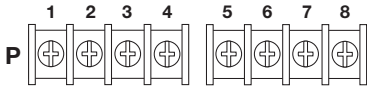
Fig. 3 - ALTV248300220 and ALTV248300CB220



**Voltage Selection Configuration**

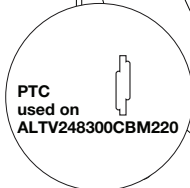
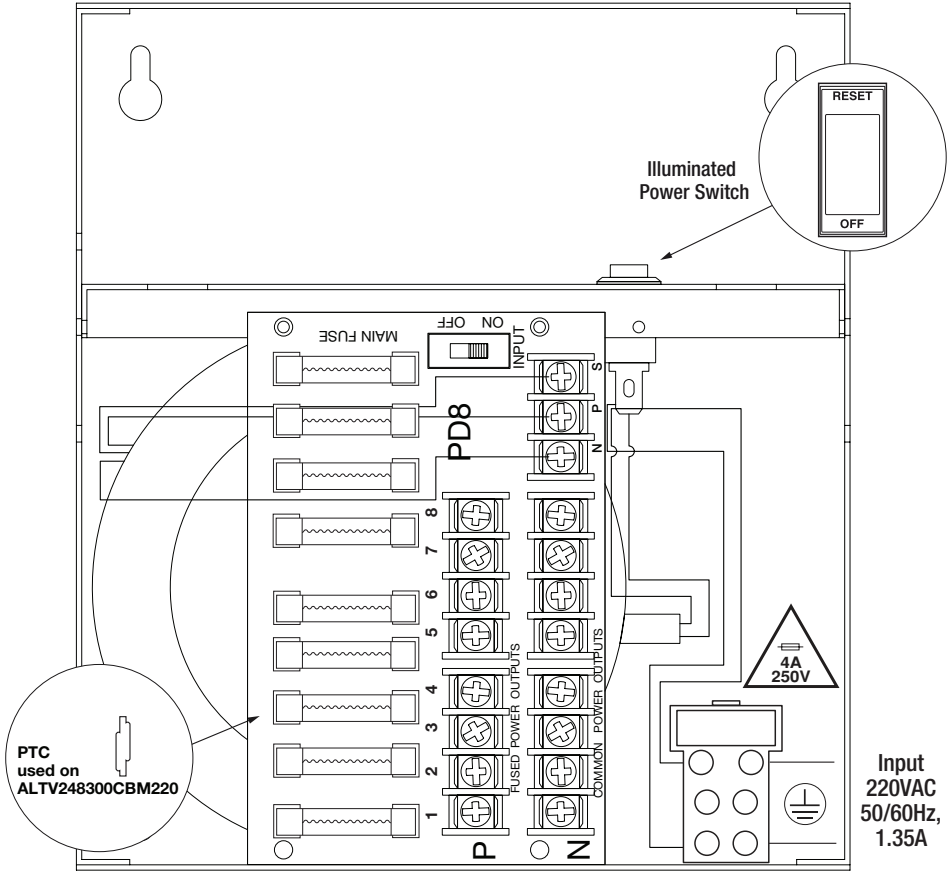


**Terminal Blocks for Fig. 3**

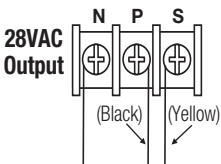
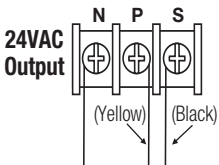


24VAC or 28VAC fuse or PTC protected outputs 1 through 8.

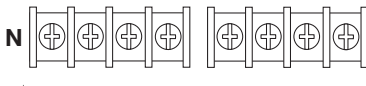
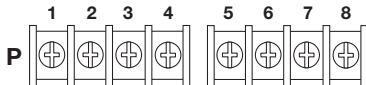
Fig. 4 - ALTV248300M220 and ALTV248300CBM220



**Voltage Selection Configuration**

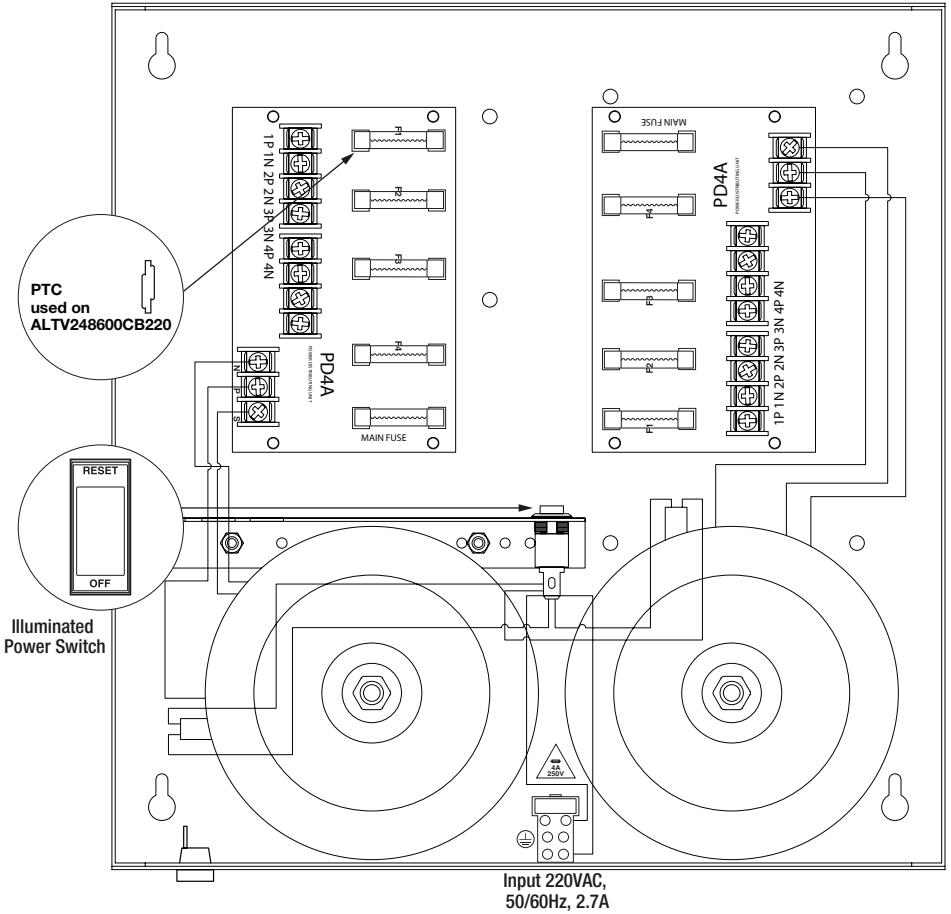


**Terminal Blocks for Fig. 4**

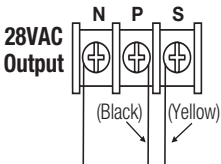
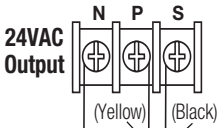


24VAC or 28VAC fuse or PTC protected outputs 1 through 8.

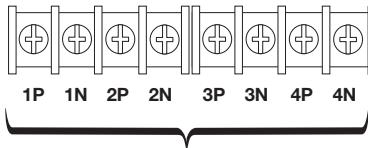
Fig. 5 - ALTV248600220 and ALTV248600CB220



**Voltage Selection Configuration**



**Terminal Blocks for Fig. 5**



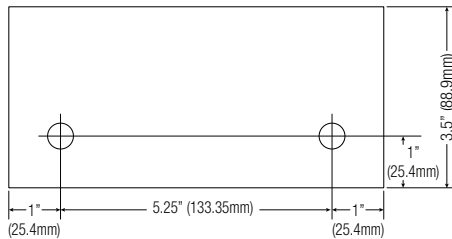
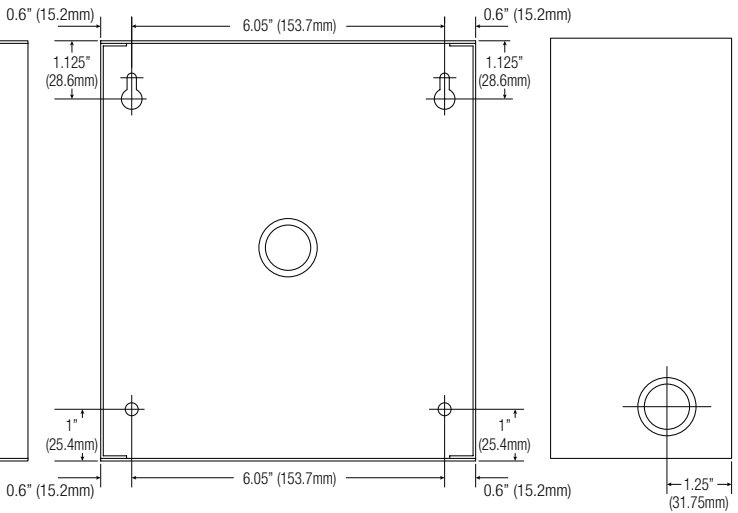
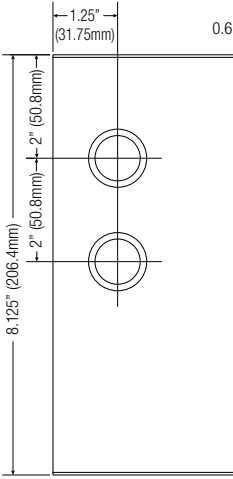
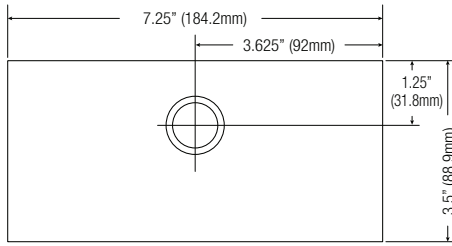
24VAC or 28VAC fuse or PTC protected outputs 1 through 4.



## Enclosure Dimensions (H x W x D) for:

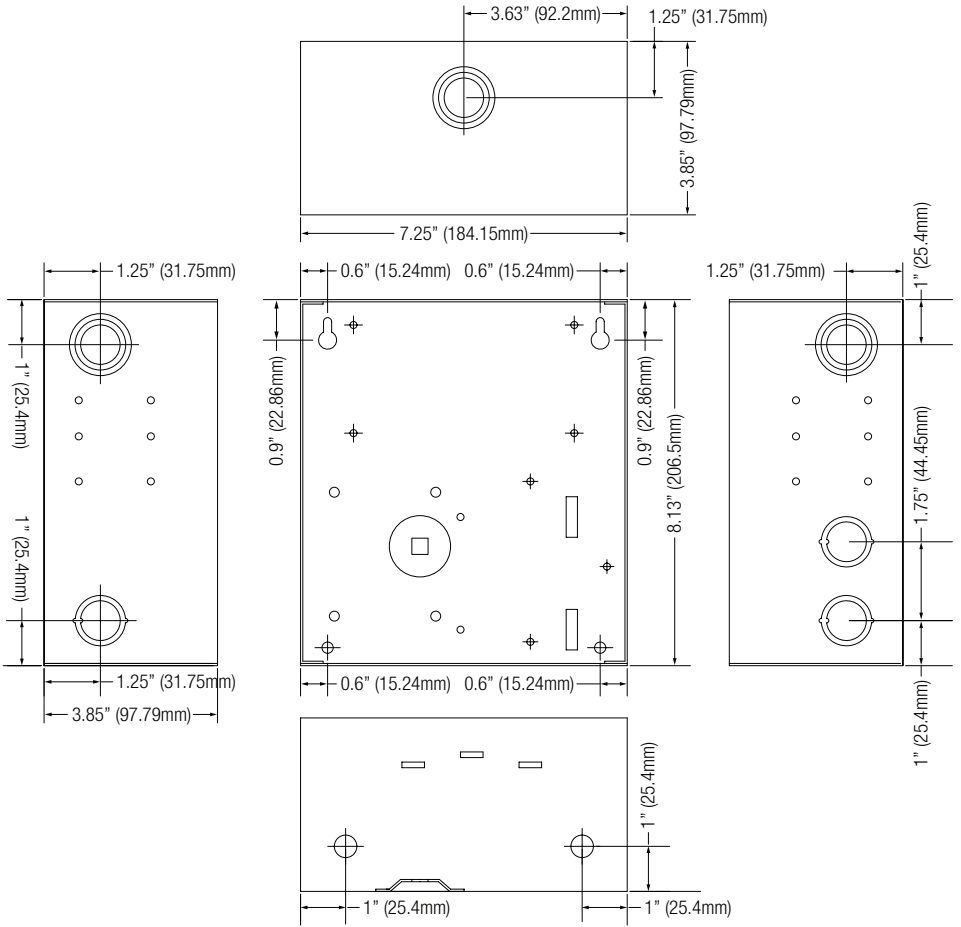
- **ALTV248220**   • **ALTV248CB220**   • **ALTV248175220**   • **ALTV248175CB220**

8.5" x 7.5" x 3.5" (215.9mm x 190.5mm x 88.9mm)



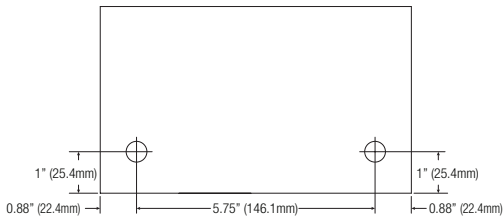
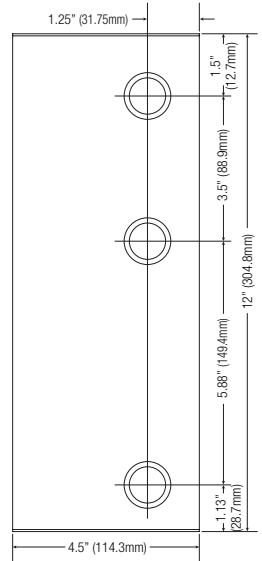
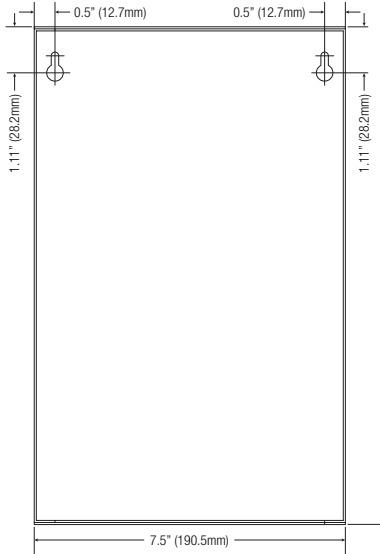
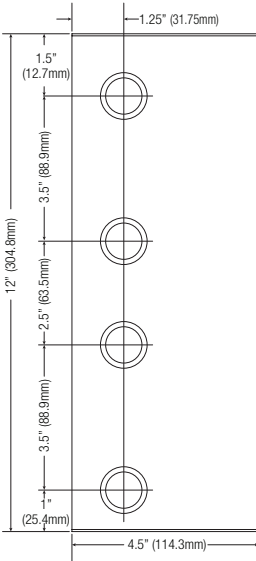
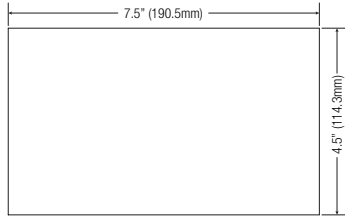
**Enclosure Dimensions (H x W x D) for:**  
**• ALTV248300M220 • ALTV248300CBM220**

8.5" x 7.5" x 3.875" (215.9mm x 191mm x 98.4mm)



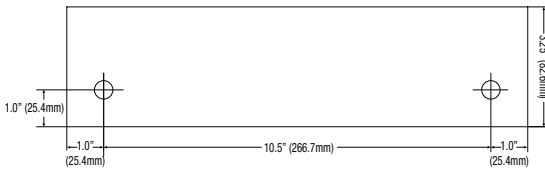
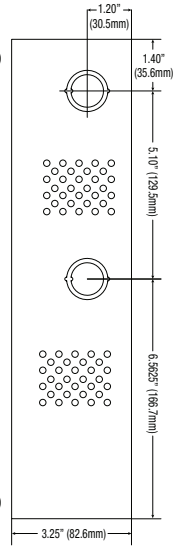
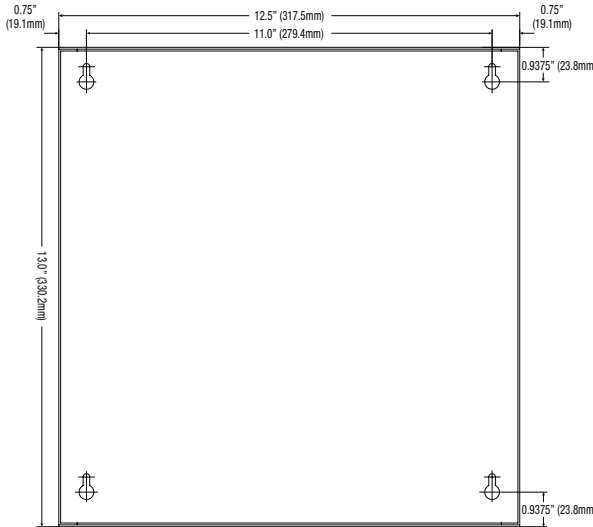
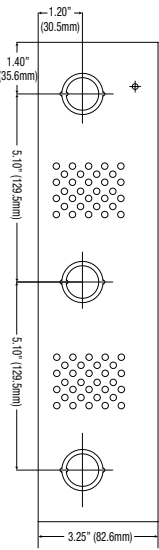
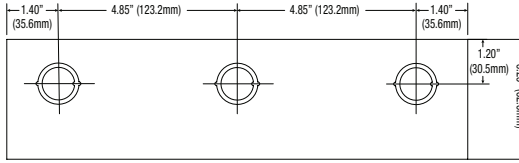
# Enclosure Dimensions (H x W x D) for: • ALTV248300220 • ALTV248300CB220

12.25" x 7.25" x 4.5" (311.15mm x 184.15mm x 114.3mm)



# Enclosure Dimensions (H x W x D) for: • ALTV248600220 • ALTV248600CB220

13.5" x 13" x 3.25" (342.9mm x 330.2mm x 82.6mm)



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.

Altronix is not responsible for any typographical errors.

140 58th Street, Brooklyn, New York 11220 USA | 718-567-8181 | fax: 718-567-9056  
website: [www.altronix.com](http://www.altronix.com) | e-mail: [info@altronix.com](mailto:info@altronix.com) | Lifetime Warranty  
IIALTV248220 Series C18V



ALTV248220 Series Installation Guide