Altronix®

ALTV1224DC Series
CCTV Power Supplies

Installation Guide

Models Include:

- ***ALTV1224DC***
  - *12VDC or 24VDC @ 4 amp*
  - *Eight (8) Fuse Protected Outputs.*
- ***ALTV1224DC1***
  - *12VDC or 24VDC @ 4 amp*
  - *Sixteen (16) Fuse Protected Outputs.*
- ***ALTV1224DC2***
  - *12VDC or 24VDC @ 6 amp*
  - *Sixteen (16) Fuse Protected Outputs.*
- ***ALTV1224DCCB***
  - *12VDC or 24VDC @ 4 amp*
  - *Eight (8) PTC Protected Outputs.*
- ***ALTV1224DC1CB***
  - *12VDC or 24VDC @ 4 amp*
  - *Sixteen (16) PTC Protected Outputs.*
- ***ALTV1224DC2CB***
  - *12VDC or 24VDC @ 6 amp*
  - *Sixteen (16) PTC Protected Outputs.*

Rev. 022505

Overview:

The Altronix DC CCTV power supply is designed to power CCTV Cameras and accessories. It will provide 12VDC or 24VDC distributed via eight (8) or sixteen (16) fused or PTC protected outputs with a total of four (4) or six (6) amp total continuous supply current.

Eight (8) or Sixteen (16) Output ALTV1224DC Reference Chart:

Altronix Model Number	Total Output Current (Power)	Number of Outputs	PTC Protected Outputs	Fuse Protected Outputs	Output Current (max per output)	115VAC 50/60Hz Input Current
ALTV1224DC	4 amp	8	-	x	3.5 amp	1.45 amp
ALTV1224DCCB	4 amp	8	x	-	2.5 amp	1.45 amp
ALTV1224DC1	4 amp	16	-	x	3.5 amp	1.45 amp
ALTV1224DC1CB	4 amp	16	x	-	2.5 amp	1.45 amp
ALTV1224DC2	6 amp	16	-	x	3.5 amp	2.5 amp
ALTV1224DC2CB	6 amp	16	x	-	2.5 amp	2.5 amp

Specifications:

- AC input and DC output LED indicator.
- Filtered and electronically regulated outputs.
- Power ON/OFF switch.
- Spare fuses included.
- Unit maintains camera synchronization.
- Ease of installation saves time and eliminates costly labor.

Enclosure Dimensions:

13.5"H x 13"W x 3.25"D

Installation Instructions:

1. Mount unit in 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 the two 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. 6)*. Secure enclosure to earth ground.
2. Slide switch to OFF position *(Fig. 1A, pg. 3, Fig. 2A, pg. 4 or Fig. 3A, pg. 5)*.
3. Set the unit to desired DC output voltage range by setting switch (SW1) on the power supply board to the appropriate position *(Fig. 1C, pg. 3, Fig. 2C, pg. 4 or Fig. 3C, pg. 5)*. Use trimpot to adjust voltage if necessary *(Fig. 1B, pg. 3, Fig. 2B, pg. 4 or Fig. 3B, pg. 5)*.
4. Connect the AC (115VAC 50/60 Hz) to the terminals marked L and N. Connect earth ground to G terminal *(Fig. 1, pg. 3, Fig. 2, pg. 4 or Fig. 3, pg. 5)*.
5. **Measure output voltage before connecting devices.** This helps avoid potential damage.
6. Connect each DC device to output terminals 1 through 8 *(Fig. 1, pg. 3)* or terminals 1 through 16 *(Fig. 2, pg. 4 or Fig. 3, pg. 5)*. **Note:** Be careful to observe camera polarity.
7. When batteries are being used the DC output voltage must be adjusted by turning the trim pot VR1 *(Fig. 1B, pg. 3, Fig. 2B, pg. 4 or Fig. 3B, pg. 5)* clockwise to increase the output voltage to 13.7VDC for 12VDC operation and 27.1VDC for 24VDC operation. Connect battery to terminals marked [– BAT +] (battery leads included) *(Fig. 1, pg. 3, Fig. 2, pg. 4 or Fig. 3, pg. 5)*. Use two (2) 12VDC batteries connected in series for 24VDC operation.
8. Slide switch to ON position *(Fig. 1A, pg. 3, Fig. 2A, pg. 4 or Fig. 3A, pg. 5)*.
9. Green LED on the PD8/PD8CB or PD16W/PD16WCB board will illuminate when power is present.
10. Upon completion of wiring, secure enclosure door with screws (supplied).

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 all local codes and in accordance with the National Electrical Code.

ALTV1224DC/CB Terminal Identification:

OLS127 - Power Supply

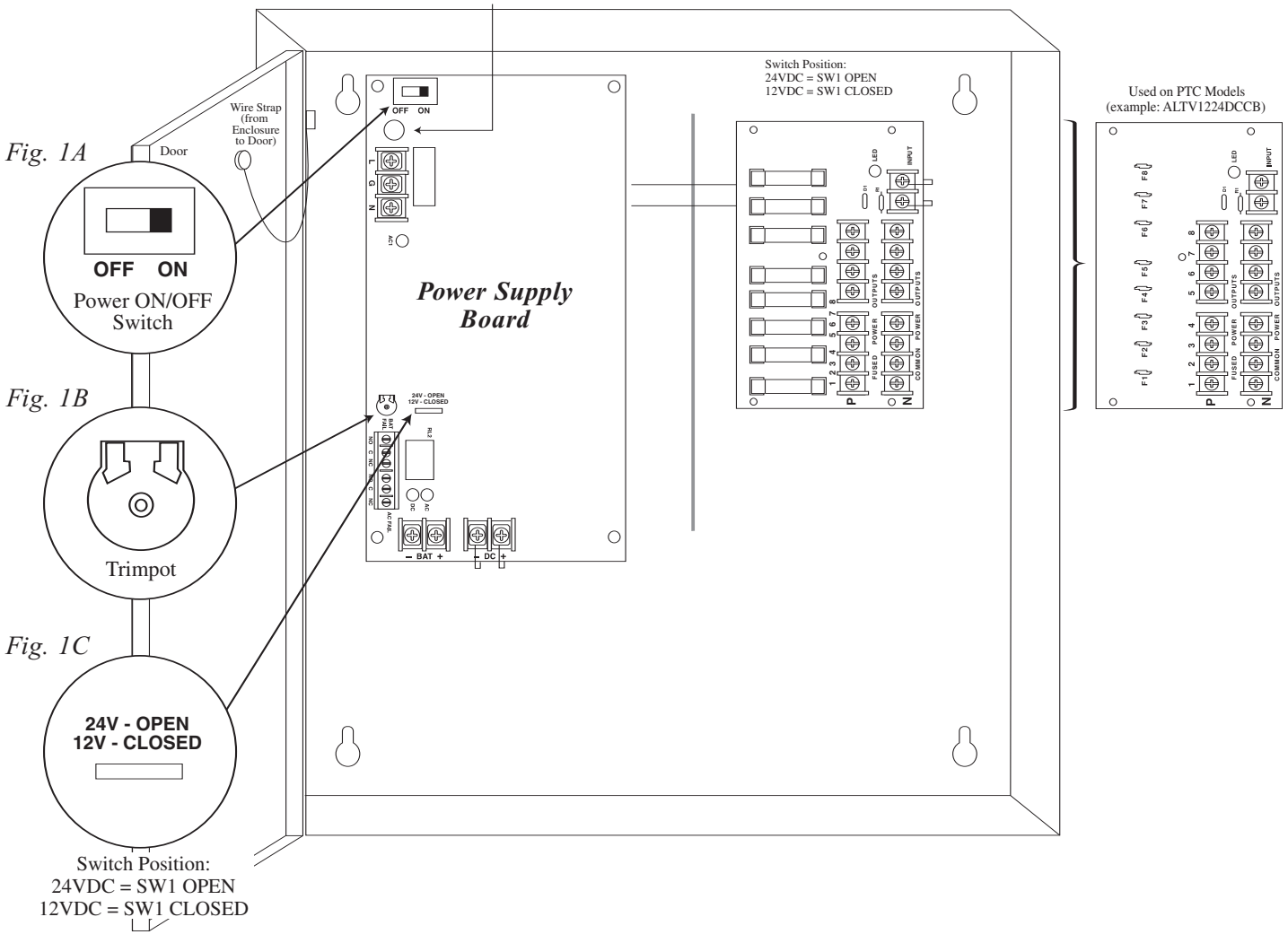
Terminal Legend	Function/Description
L, G, N	115VAC 50/60 Hz connections
– DC +	12VDC or 24VDC @ 4 amp total continuous output.
– BAT +	Stand-by battery connections. Maximum charge rate .5 amp.

PD8/PD8CB - Distribution Module

1P - 8P	Positive DC power outputs.
1N - 8N	Negative DC power outputs.

Fig. 1

CAUTION: De-energize unit prior to servicing. For continued protection against fire hazard replace fuse with the same type and rating 5A, 250V. Do not expose unit to rain or moisture.



ALTV1224DC1/CB Terminal Identification:

OLS127

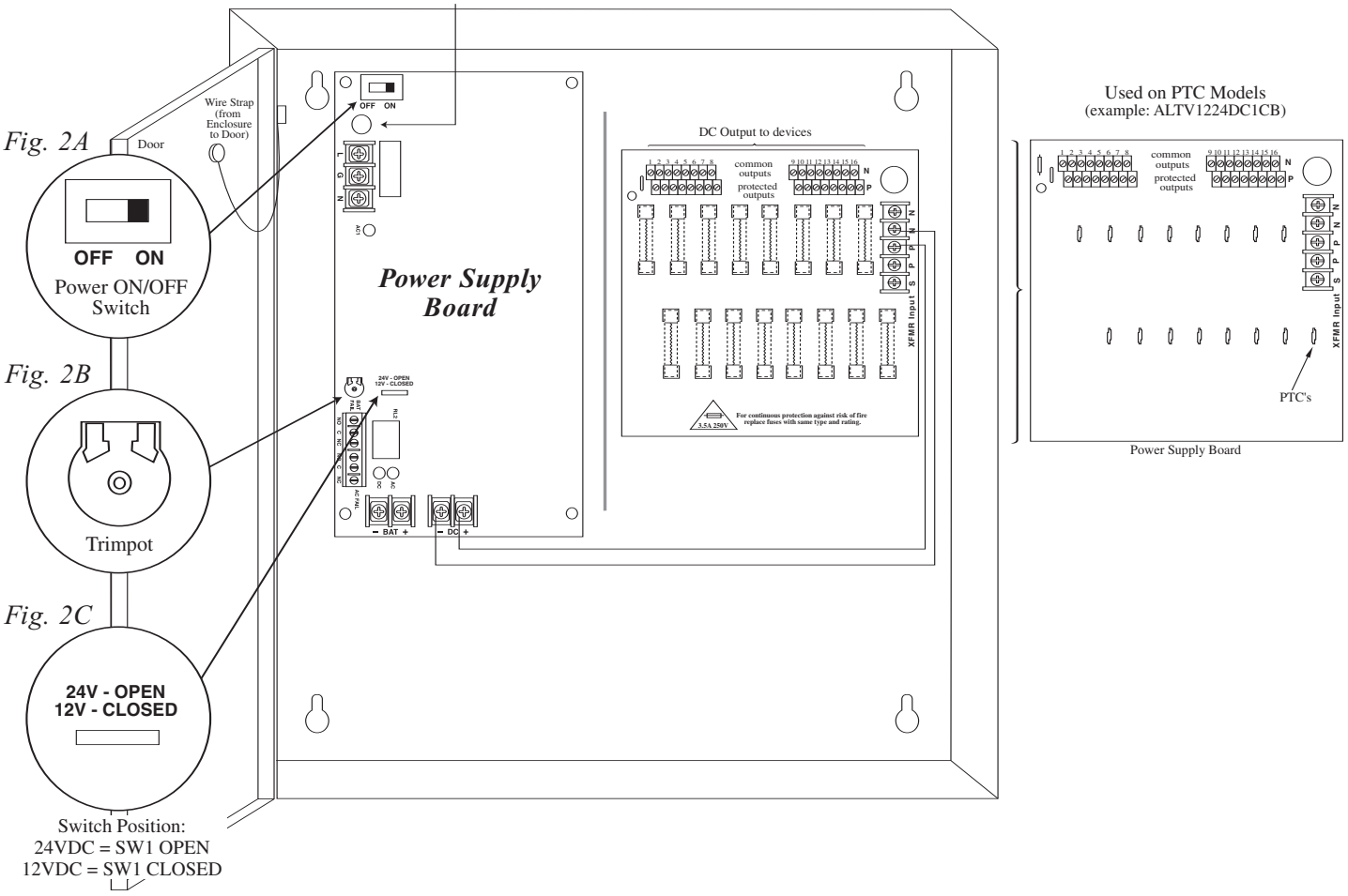
Terminal Legend	Function/Description
L, G, N	115VAC power mains connection.
– DC +	12VDC or 24VDC @ 4 amp total continuous output.
– BAT +	Stand-by battery connections. Maximum charge rate .5 amp.

PD16W/PD16WCB

1P - 16P	Positive DC power outputs.
1N - 16N	Negative DC power outputs.

Fig. 2

CAUTION: De-energize unit prior to servicing. For continued protection against fire hazard replace fuse with the same type and rating 5A, 250V.
Do not expose unit to rain or moisture.



ALTV1224DC2/CB Terminal Identification:

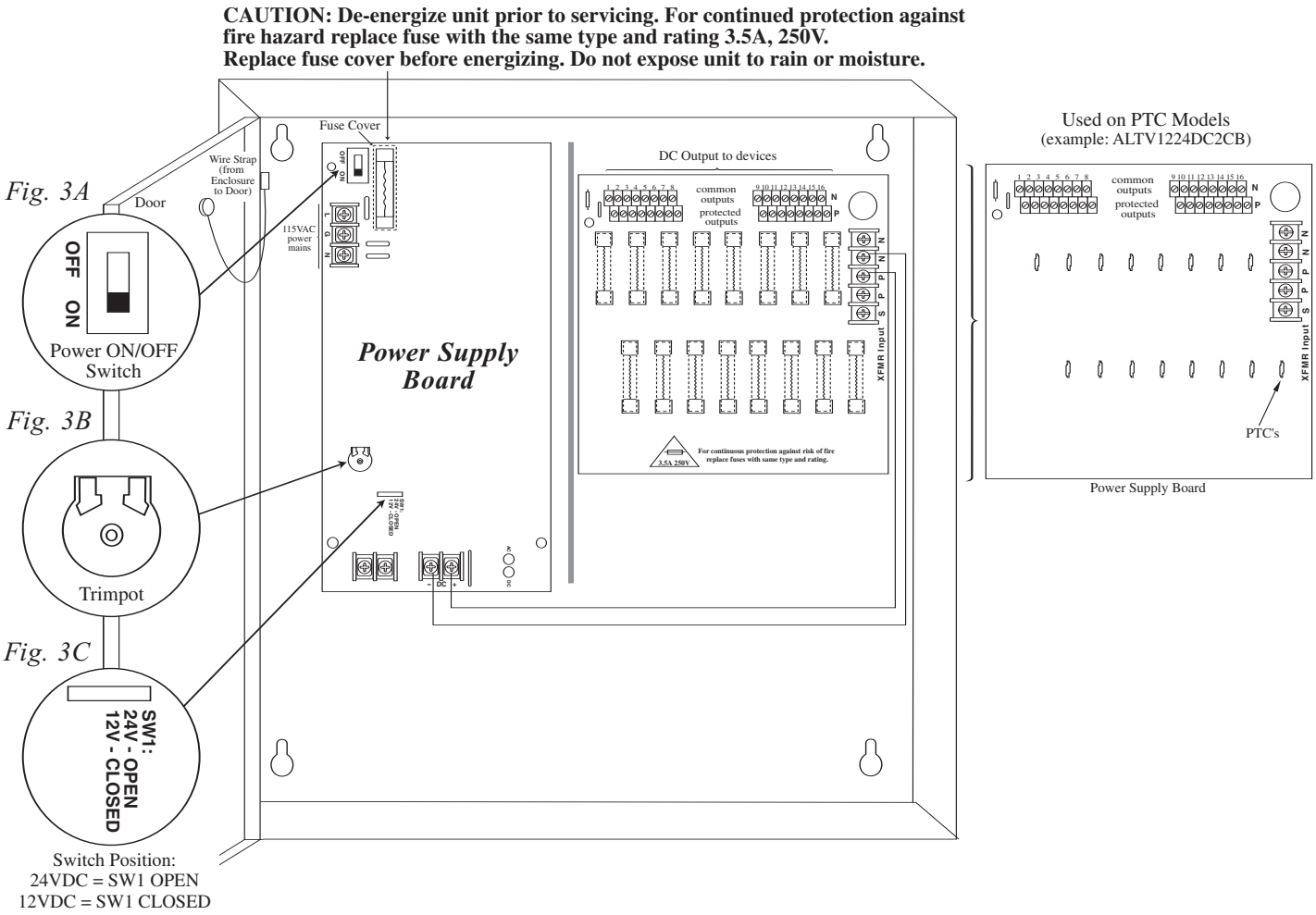
OLS187

Terminal Legend	Function/Description
L, G, N	115VAC power mains connection.
– DC +	12VDC or 24VDC @ 6 amp total continuous output.
– BAT +	Stand-by battery connections. Maximum charge rate .5 amp.

PD16W/PD16WCB

1P - 16P	Positive DC power outputs.
1N - 16N	Negative DC power outputs.

Fig. 3



The lightning flash with arrow head symbol within an equilateral triangle is intended to alert the user to the presence of an insulated “DANGEROUS VOLTAGE” within the products enclosure that may be of sufficient magnitude to constitute an electric shock.

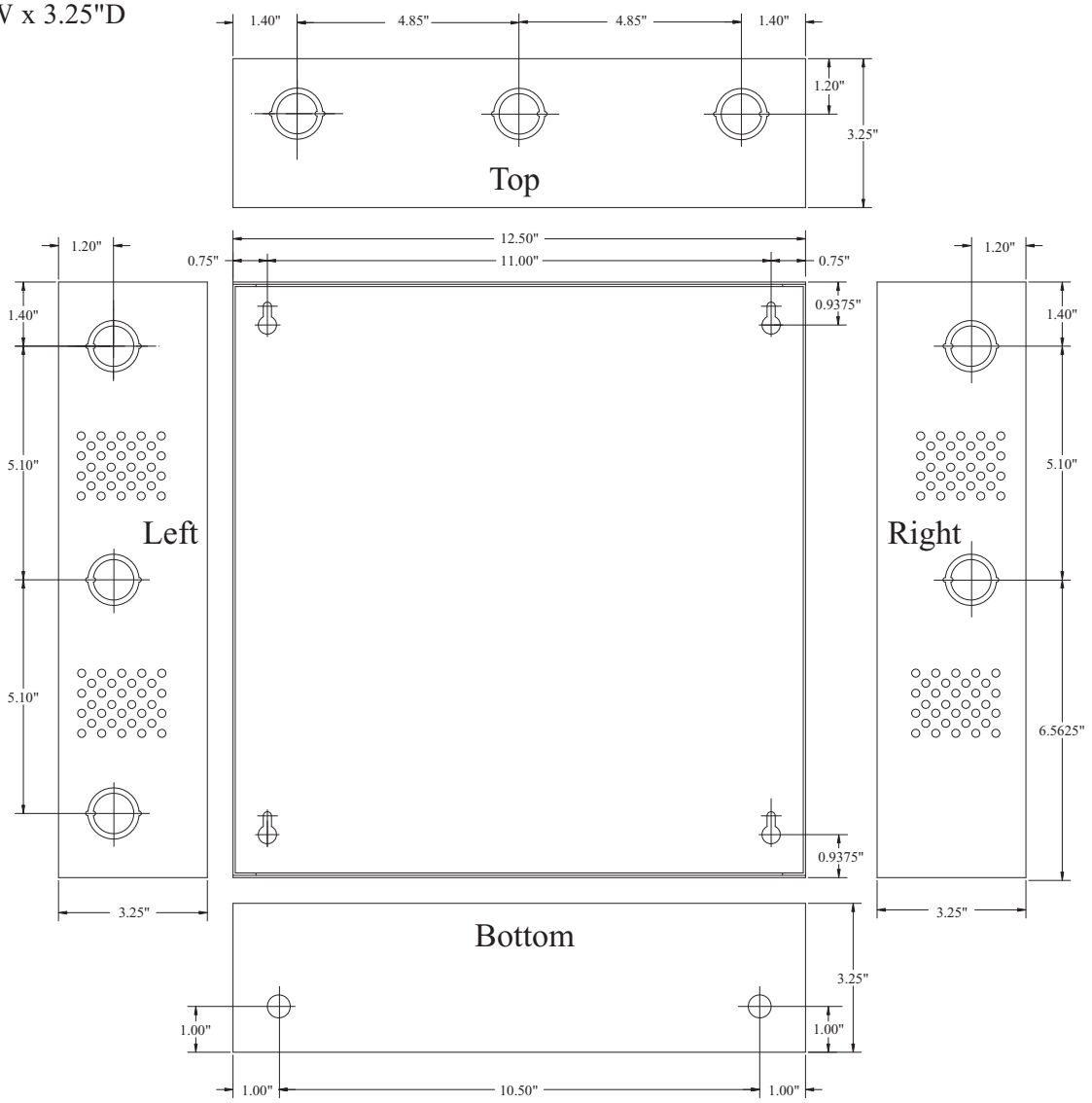
The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

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.

Enclosure Dimensions:

13.5"H x 13"W x 3.25"D



Notes:

Notes:

Altronix is not responsible for any typographical errors.

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MEMBER