



AL168 Series Multi-Output Power Supplies

Installation Guide

Models Include:

AL168CB

- 16VAC @ 6 amp (100VA) or 18VAC @ 5 amp.
- Eight (8) PTC Protected Outputs.

AL168175CB

- 16VAC @ 10 amp (175VA) or 18VAC @ 9 amp (175VA).
- Eight (8) PTC Protected Outputs.

AL168300CB

- 16VAC @ 18 amp (350VA) or 18VAC @ 16 amp (350VA).
- Eight (8) PTC Protected Outputs.

AL168300CBM

- 16VAC @ 18 amp (300VA) or 18VAC @ 16 amp (300VA).
- Eight (8) PTC Protected Outputs.

AL168600CB

- 16VAC @ 40 amp (700VA) or 18VAC @ 36 amp (700VA).
- Eight (8) PTC Protected Outputs.



Overview:

These Altronix Multi-Output Power Supplies provide 16VAC/18VAC distributed via eight (8) PTC protected outputs for powering multiple security system or access control panels.

Eight (8) Output AL168 Reference Chart:

Altronix Model Number	Output Voltage	Total Output Current (Power)	Number of Outputs	PTC Protected Outputs	Fuse Protected Outputs	Output Current (max per output)	Main Fuse Ratings on Board	115VAC 50/60Hz Input Current
AL168CB	16VAC	6 amp	8	x	-	2.5 amp	10 amp/250V	.9 amp
	18VAC	5 amp						
AL168175CB	16VAC	10 amp	8	x	-	2.5 amp	15 amp/250V	1.45 amp
	18VAC	9 amp						
AL168300CB	16VAC	18 amp	8	x	-	2.5 amp	25 amp/32V	2.7 amp
	18VAC	16 amp						
AL168300CBM	16VAC	18 amp	8	x	-	2.5 amp	25 amp/32V	2.7 amp
	18VAC	16 amp						
AL168600CB	16VAC	40 amp	8	x	-	2.5 amp	Two - 25 amp/32V	5.4 amp
	18VAC	36 amp						

Specifications:

- Surge suppression.
- AC power LED indicator.
- Power ON/OFF switch (ALTV168CB).
- Illuminated power disconnect circuit breaker with manual reset for all other models.
- Unit maintains camera synchronization.
- Ease of installation saves time & eliminates costly labor.
- Spare fuses included (on fuse protected models).

Enclosure Dimensions:

AL168CB and AL168175CB:
8.5"H x 7.5"W x 3.5"D
AL168300CBM:
8.5"H x 7.5"W x 3.75"D
AL168300CB and AL168600CB:
13"H x 13.5"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 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. 7*). Secure enclosure to earth ground.
2. Slide switch on PD board to OFF position for models ALTV168CB (*Figs. 1, pg. 4*). Turn OFF main switch on all other models, (*Figs. 2-5, pgs. 4-6*).
3. All units are factory set for 16VAC operation. For 18VAC operation, adjust unit prior to mounting and applying power as follows: Change the wire position so that the black wire [18V] is connected to the terminal marked [P] and the yellow wire [16V] is connected to the terminal marked [S].
4. Connect AC power to the black and white flying lead of the transformer(s) (*Figs. 1-5, pgs. 4-6*). Use 18 AWG or larger for all power connections.
5. Measure output voltage before connecting devices. This helps avoid 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.

6. Connect devices to terminals marked [1P - 1N through 4P - 4N] on PD4/PD4CB board (Figs. 3 & 5, pgs. 5-6) or terminals marked [1P - 1N through 8P - 8N] on PD8/PD8CB board (Figs. 1, 2 & 4, pgs. 4-5), carefully observing polarity.
7. Slide switch on PD board to ON position for models AL168 and AL168CB (Figs. 1 & 2, pg. 4). Turn main switch on all other models to the “RESET” (ON) position (Figs. 3-5, pgs. 5-6).
8. Green LED will illuminate when unit is powered.
9. 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 all local codes and in accordance with the National Electrical Code.

Terminal Identification:

PD4/PD4CB/PD8/PD8CB - Power Distribution Module

Terminal Legend	Function/Description
1P - 4P, 1P - 8P	AC output.
1N - 4N, 1N - 8N	AC output.

LED Diagnostics:

PD4/PD4CB/PD8/PD8CB - Power Distribution Module

Green (AC)	Power Distribution Module Status
ON	Normal operating condition.
OFF	No Power Output.



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.

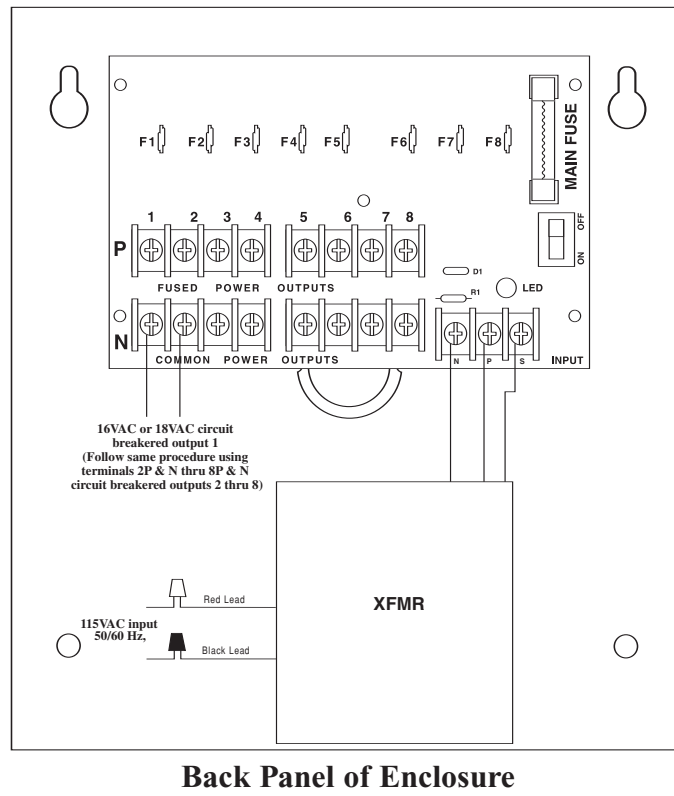


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



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.

Fig. 1 - AL168CB



Voltage Selection Configuration

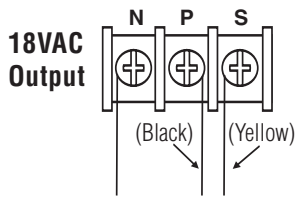
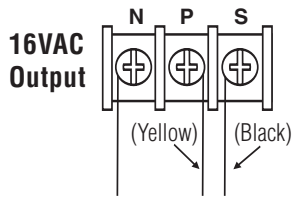


Fig. 2 - AL168175CB

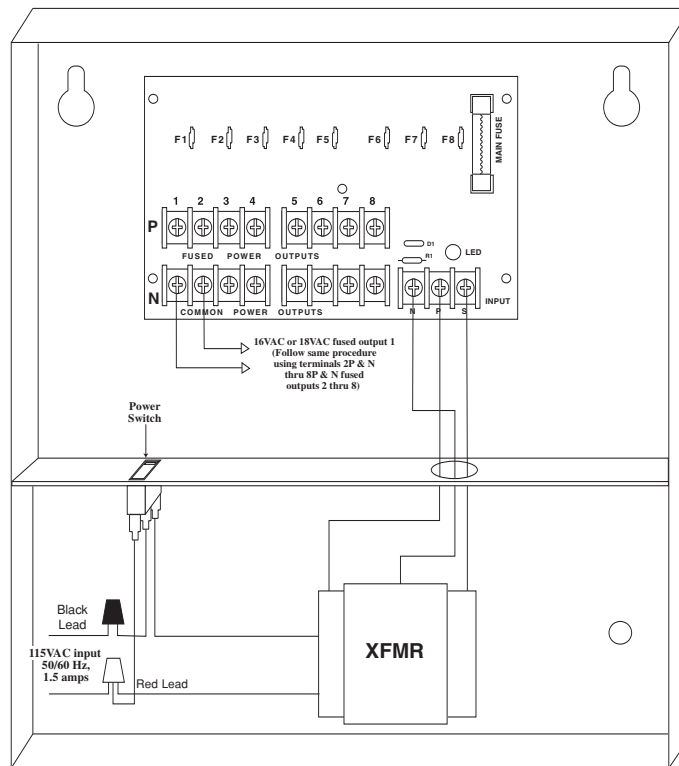


Fig. 3 - AL168300CB

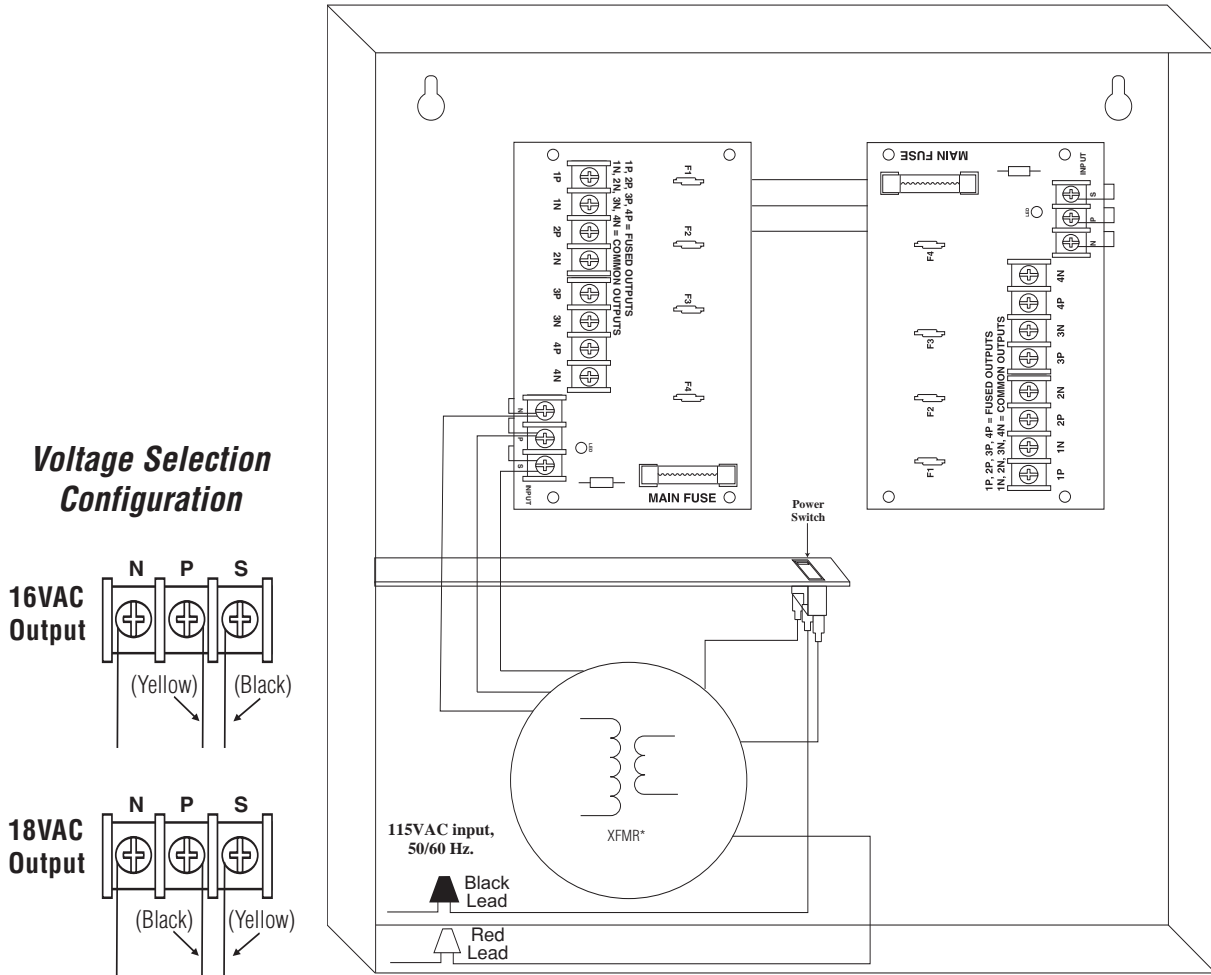


Fig. 4 - AL168300CBM

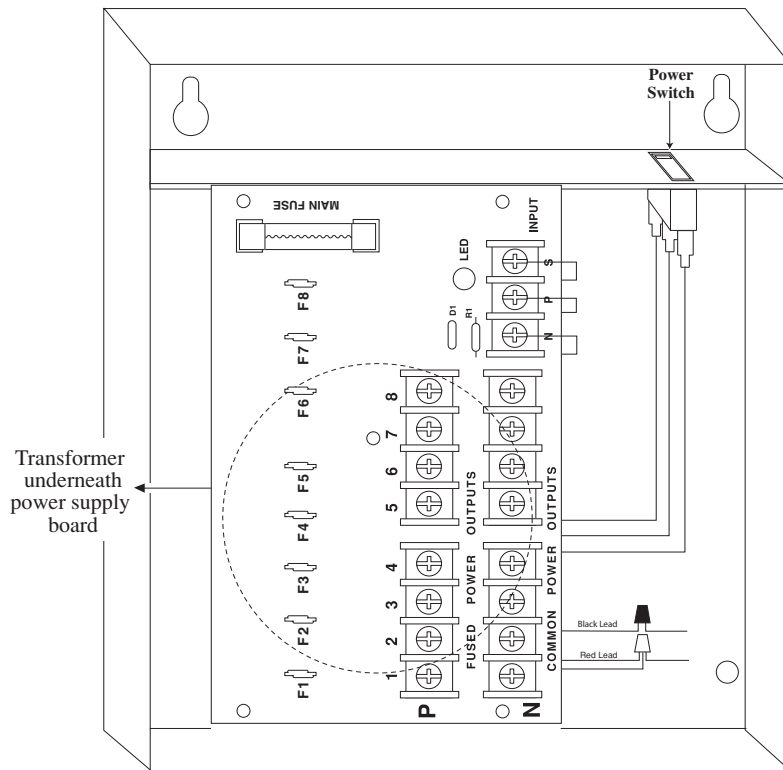
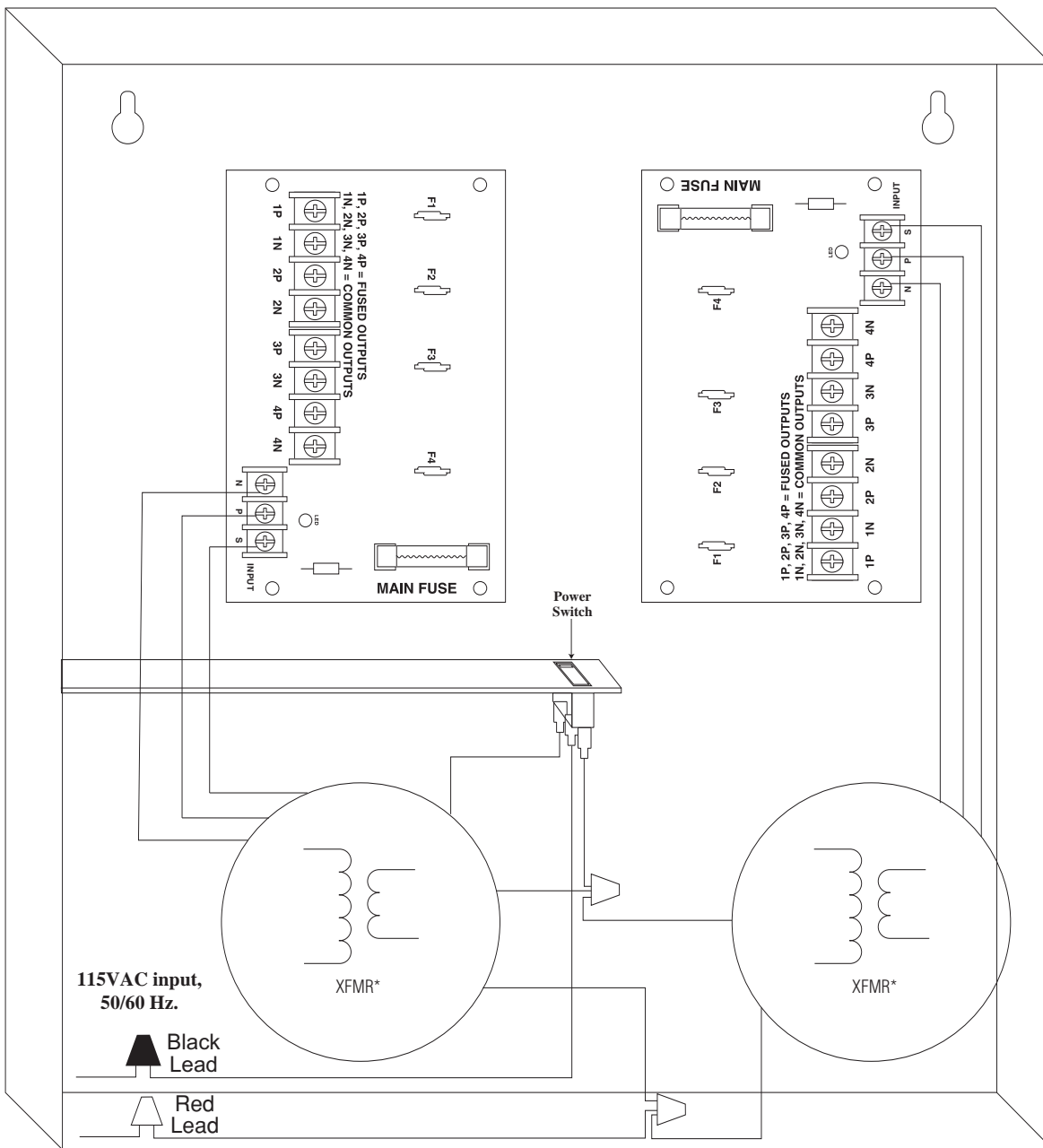
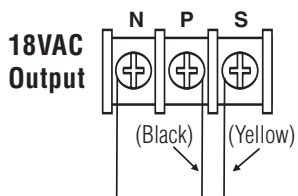
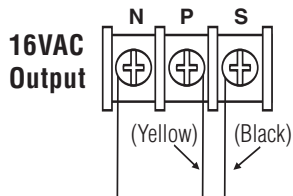


Fig. 5 - AL168600CB



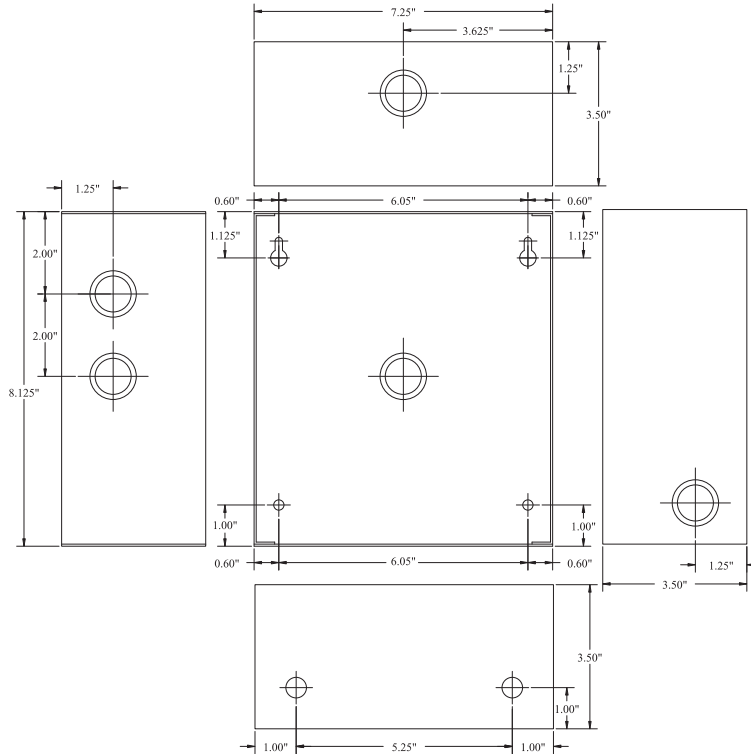
Voltage Selection Configuration



Enclosure Dimensions:

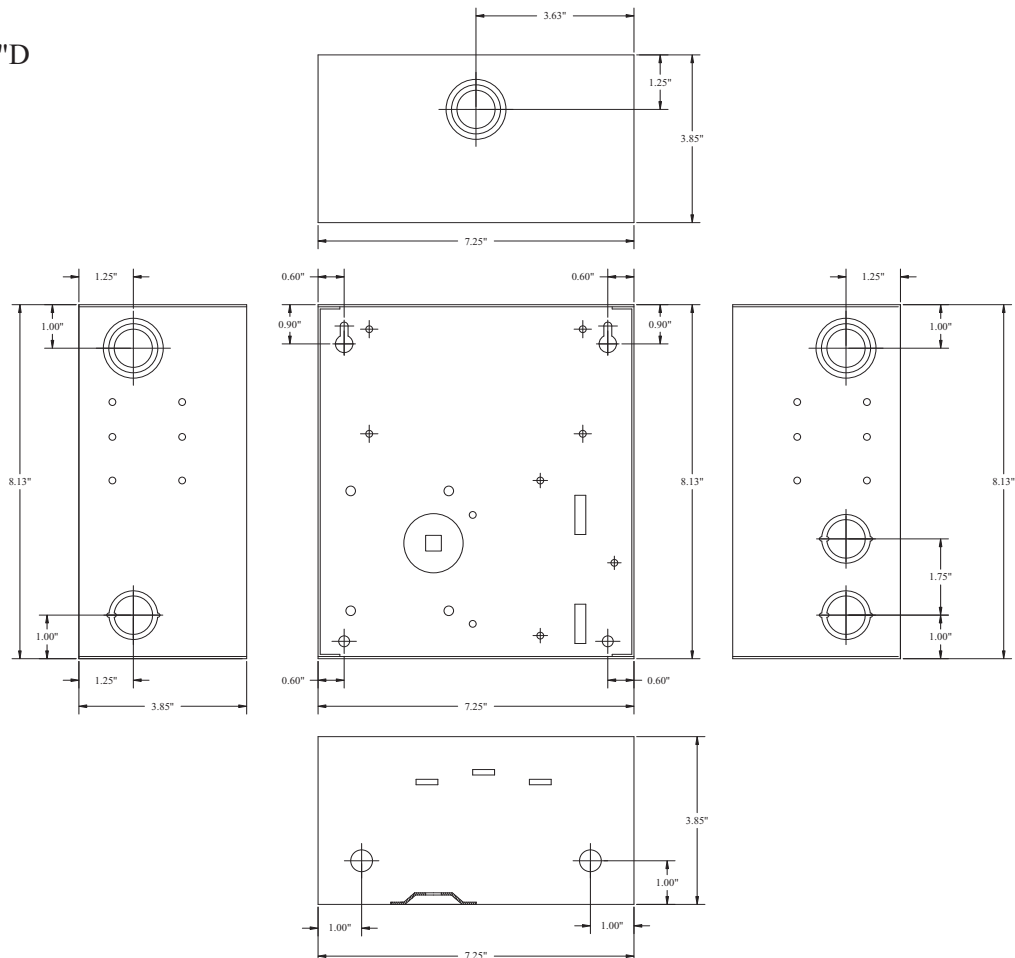
• AL168CB and AL168175CB

8.5"H x 7.5"W x 3.5"D



• AL168300CBM

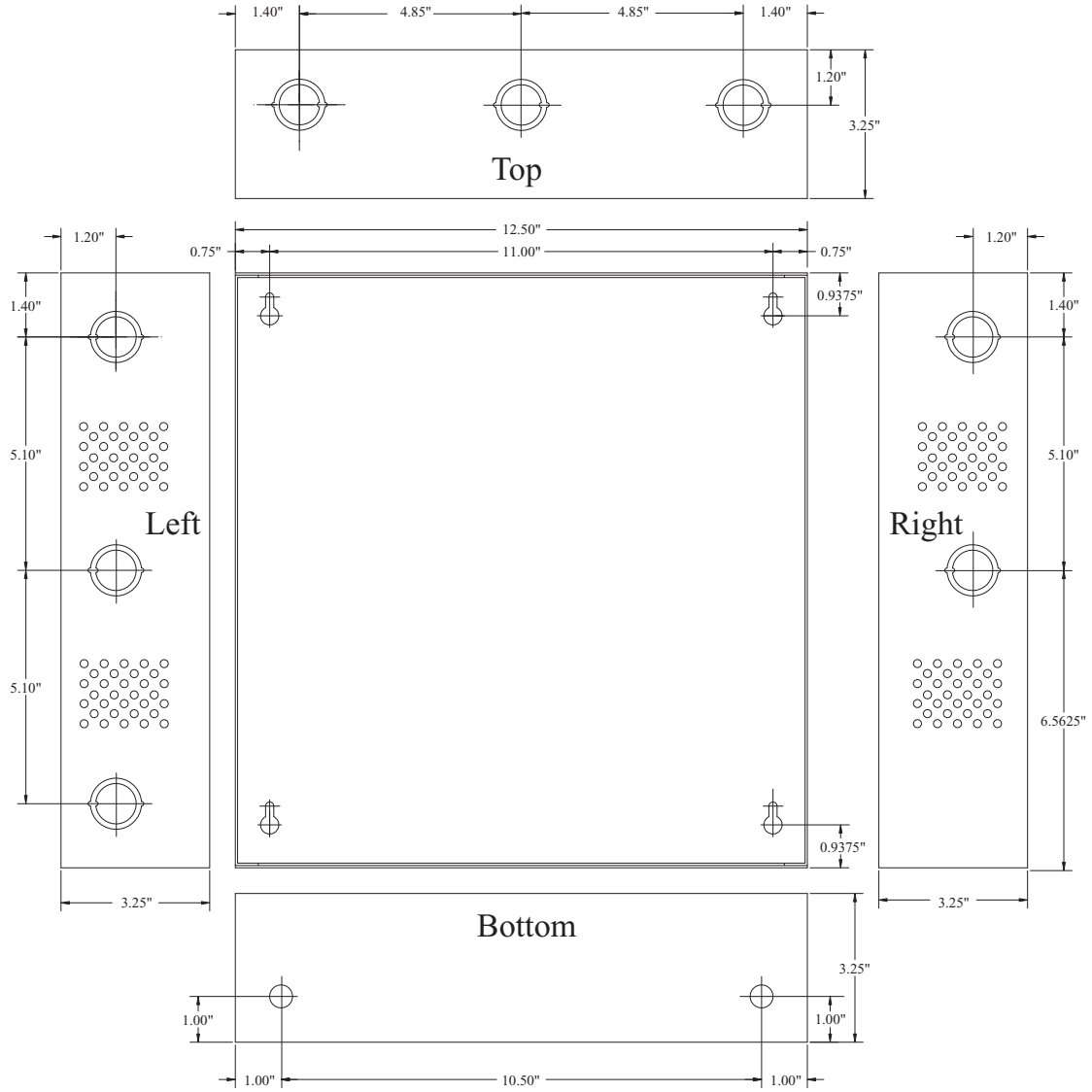
8.5"H x 7.5"W x 3.75"D



Enclosure Dimensions:

• **AL168300CB and AL168600CB**

13"H x 13.5"W x 3.25"D



Altronix is not responsible for any typographical errors.

Altronix Corp.
 140 58th Street, Brooklyn, New York 11220 USA, 718-567-8181, fax: 718-567-9056
 web site: www.altronix.com, e-mail: info@altronix.com, Lifetime Warranty, Made in U.S.A.
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