



SMP10C12X Series Installation Guide

Overview:

These units convert a 115VAC 50/60Hz input into a regulated 12VDC output at up to 10A continuous supply current (see specifications).

SMP10C12X Series Power Supply Configuration Reference Chart:

Altronix Model Number	Accessory Power Distribution Module(s)	Number of Outputs	Fused Outputs	PTC Outputs	Individual Output Rating (A)	Supervised	115VAC 50/60Hz Input Current (A)	12VDC Total Output Current (A)
SMP10C12X	-	1	-	-	10A	-	1.45A	10A
SMP10C12XX*			-	-				
SMP10PMC12X			-	-				
SMP10PMC12XX*			-	-				
SMP10PM12P4	PD4	4	✓	-	3.5A	✓	1.45A	10A
SMP10PM12P4CB	PD4CB		-	✓	2.5A			
SMP10PM12P8	PD8	8	✓	-	3.5A			
SMP10PM12P8CB	PD8CB		-	✓	2.5A			
SMP10PM12P16	PD16W	16	✓	-	3.5A			
SMP10PM12P16CB	PD16WCB		-	✓	2.5A			

*Refer to Enclosure Dimensions on pg.7 for enclosure size.

Specifications:

Battery Backup:

- Built-in charger for sealed lead acid or gel type batteries.
- Maximum charge current 0.7A.
- Automatic switch over to stand-by battery when AC fails (zero voltage drop).

Features:

- AC input and DC output LED indicators.
- Short circuit and thermal overload protection.

Features (cont'd):

- Complete with power supply, power distribution module (when applicable), enclosure, cam lock, and battery leads.
- Power ON/OFF switch.

Supervised models only:

- AC fail supervision (form “C” contacts).
- Battery presence and low battery supervision (form “C” contacts).

Installation Instructions:

Wiring methods should be in accordance with the National Electrical Code/NFPA 70/NFPA 72/ANSI and with all local codes and authorities having jurisdiction. Product is intended for indoor use only.

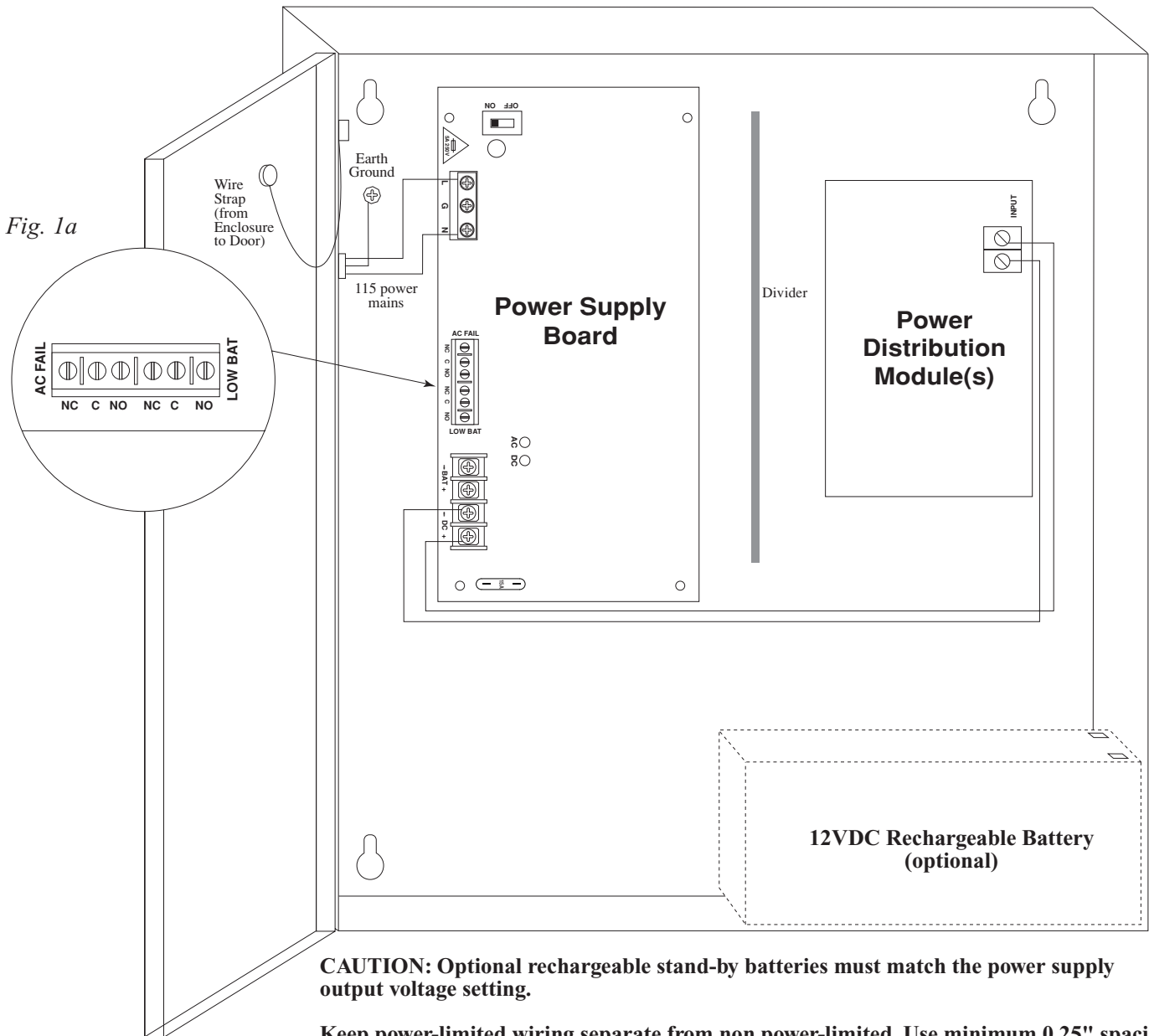
1. Mount unit in the desired location. Mark and predrill holes in the wall to line up with the top two keyholes in the enclosure. Install two upper fasteners and screws in the wall with the screw heads protruding. Place the enclosure's upper keyholes over the two upper screws; level and secure. Mark 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, pgs. 6-7*). Secure enclosure to earth ground.
2. Connect AC power to the terminals marked [L & N].
Use 18 AWG or larger for all power connections (Battery, DC output).
3. Measure output voltage before connecting devices. This helps avoiding potential damage.
Keep power-limited wiring separate from non power-limited wiring (115VAC 50/60Hz Input, Battery Wires). Minimum 0.25" spacing must be provided.
CAUTION: Do not touch exposed metal parts. Shut branch circuit power before installing or servicing equipment. There are no user serviceable parts inside. Refer installation and servicing to qualified service personnel.

4. Connect devices to be powered:
 - a. For Power Supply Board connect to the terminals marked [- DC +].
 - b. For Power Distribution Module(s) connect devices to be powered to the terminal pairs 1 to 4 marked [1P & 1N through 4P & 4N] (Fig. 3, pg. 4) 1 to 8 marked [1P & 1N through 8P & 8N] (Fig. 4, pg. 4) or 1 to 16 marked [1P & 1N through 16P & 16N] (Fig. 5, pg. 4), carefully observing correct polarity.

***Note:** Power switch is used to disconnect the L (HOT) terminal from the rest of the board. When servicing the unit, AC mains should be removed.
5. When using stand-by batteries, they must be lead acid or gel type. Connect battery to the terminals marked [- BAT +] (battery leads included). **Note:** When batteries are not used, a loss of AC will result in the loss of output voltage.
6. Connect appropriate signaling notification devices to the AC Fail & Low Bat supervisory relay outputs marked [NC, C, NO] (Fig. 1a, below).

Fig. 1

CAUTION: De-energize unit prior to servicing. For continued protection against fire hazard replace fuse with the same type and rating, 15A, 32V.

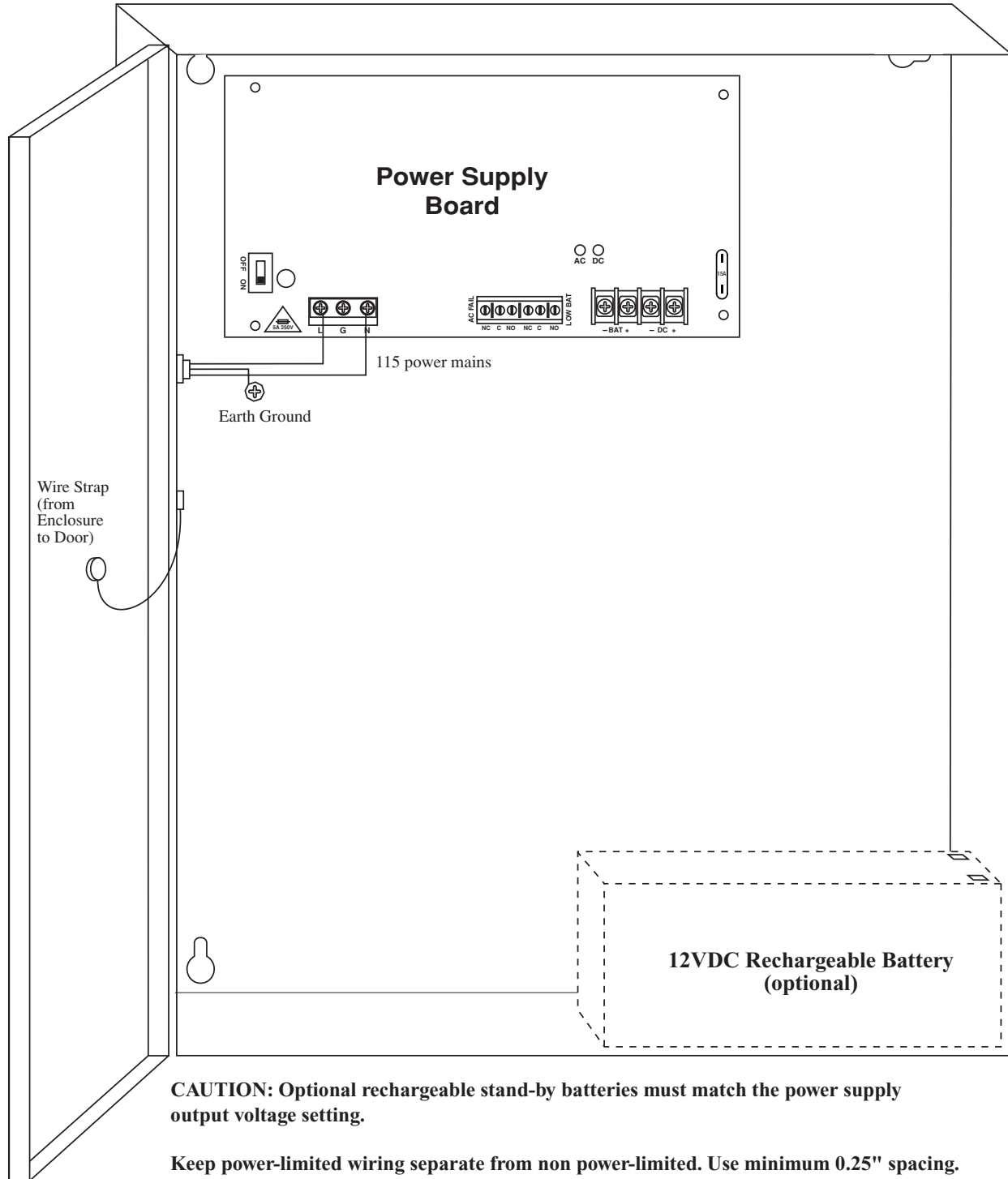


CAUTION: Optional rechargeable stand-by batteries must match the power supply output voltage setting.

Keep power-limited wiring separate from non power-limited. Use minimum 0.25" spacing.

Fig. 2

CAUTION: De-energize unit prior to servicing. For continued protection against fire hazard replace fuse with the same type and rating, 15A, 32V.



CAUTION: Optional rechargeable stand-by batteries must match the power supply output voltage setting.

Keep power-limited wiring separate from non power-limited. Use minimum 0.25" spacing.

Power Distribution Module(s):

Fig. 3

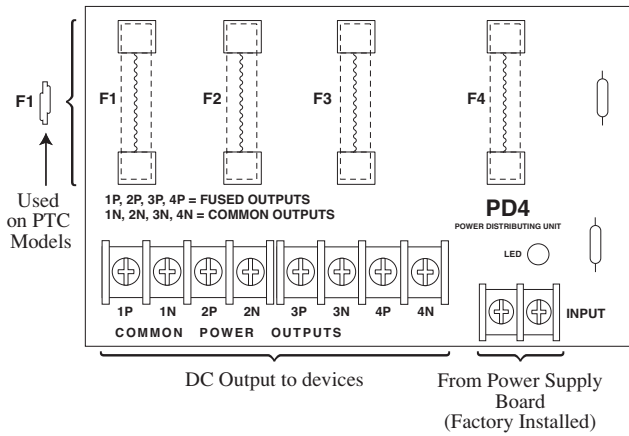


Fig. 4

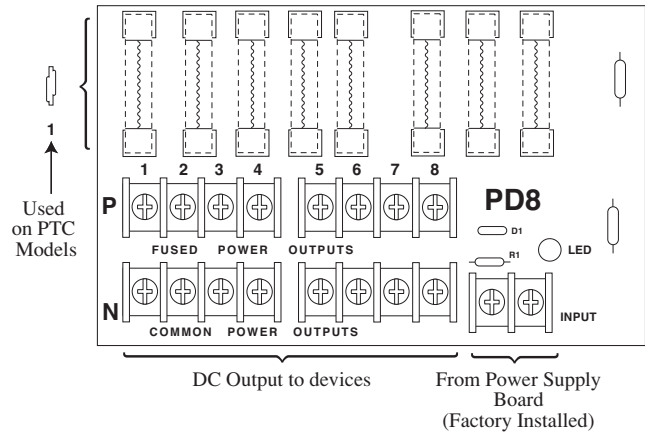
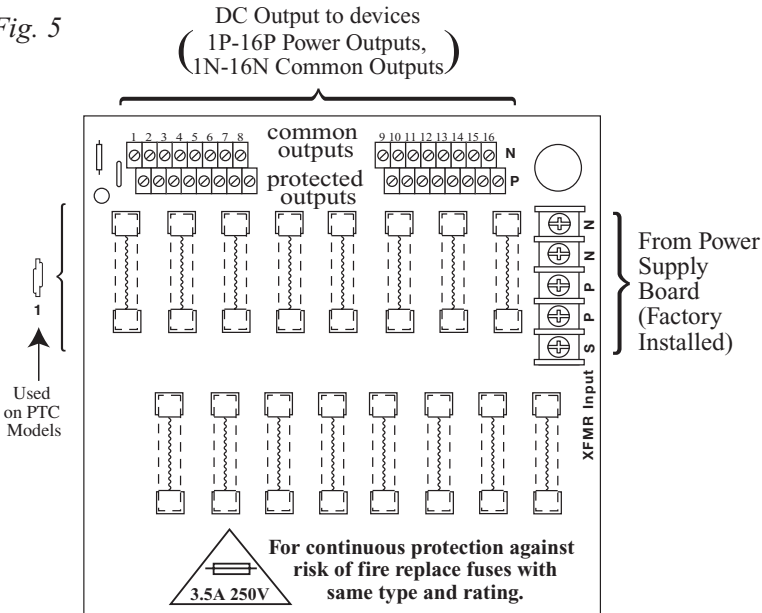


Fig. 5



LED Diagnostics:

Power Supply Board

Red (DC)	Green (AC)	Power Supply Status
ON	ON	Normal operating condition.
ON	OFF	Loss of AC. Stand-by battery is supplying power.
OFF	ON	No DC output.
OFF	OFF	Loss of AC. Discharged or no stand-by battery. No DC output.

PD4/PD4CB/PD8/PD8CB/PD16W/PD16WCB - Power Distribution Module

Green	Power Distribution Module Status
ON	Normal operating condition.

Terminal Identification:

Power Supply Board

Terminal Legend	Function/Description
L, G, N	Connect 115VAC to these terminals: L to Hot, N to Neutral.
- DC +	12VDC @ 10A continuous outputs.
*AC FAIL NC, C, NO	Indicates loss of AC power, e.g. connect to audible device or alarm panel. Relay normally energized when AC power is present. Contact rating 1A @ 120VAC / 28VDC
*Low Battery NC, C, NO	Indicates low battery condition, e.g. connect to alarm panel. Relay normally energized when DC power is present. Contact rating 1A @ 120VAC / 28VDC. Low battery threshold: 12VDC output threshold set @ approximately 10.5VDC
- BAT +	Stand-by battery connections. Maximum charge rate 0.7A.

*Note: Supervised Models Only.

PD4/PD4CB/PD8/PD8CB/PD16W/PD16WCB - Power Distribution Module

Terminal Legend			Function/Description
PD4/PD4CB	PD8/PD8CB	PD16W/PD16WCB	
1P to 4P	1P to 8P	1P to 16P	Positive DC power outputs.

Enclosure Dimensions for:

SMP10C12X

SMP10PMC12X

SMP10PM12P4

SMP10PM12P4CB

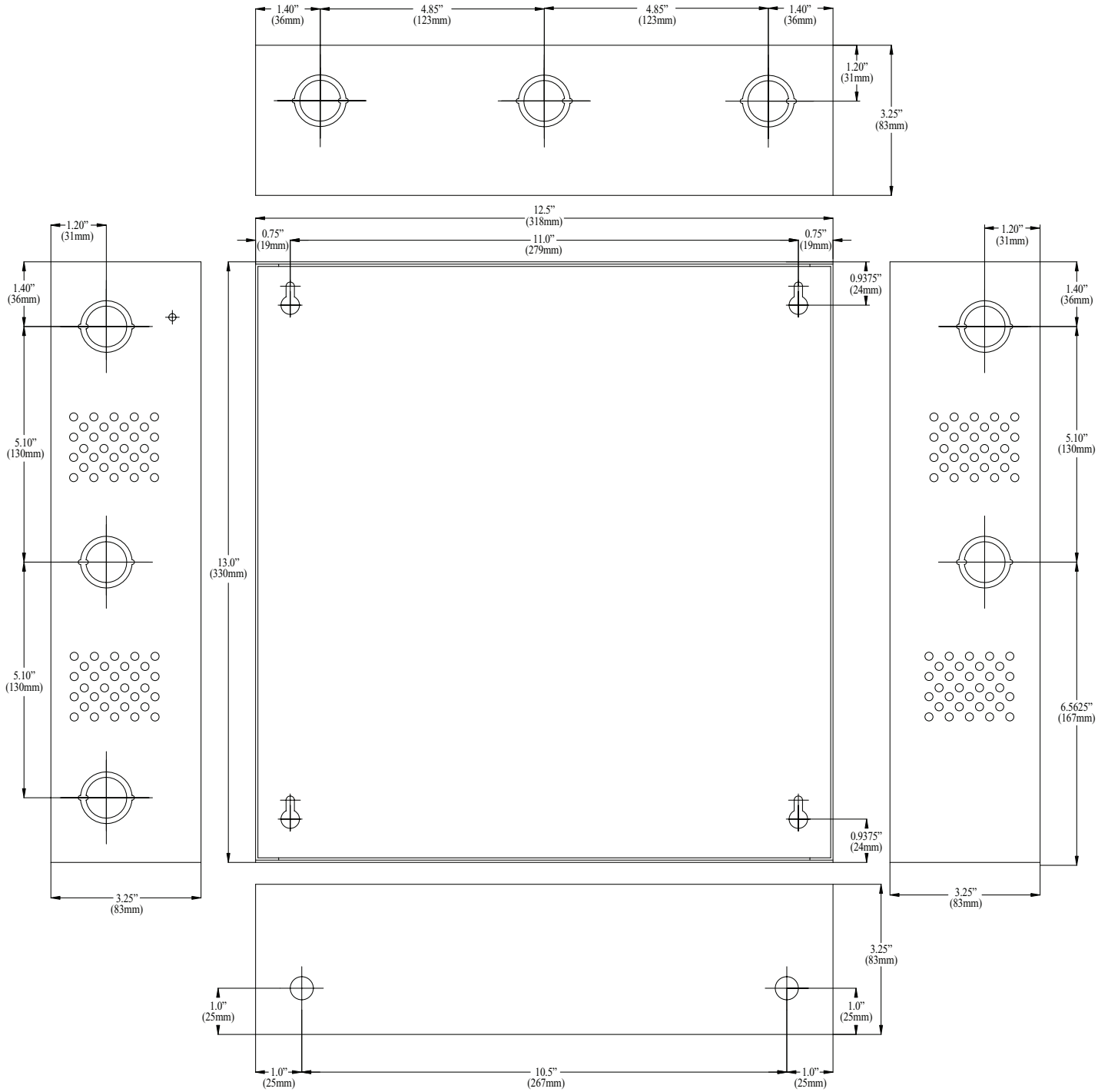
SMP10PM12P8

SMP10PM12P8CB

SMP10PM12P16

SMP10PM12P16CB

13.5" x 13" x 3.25" (342.9mm x 330.2mm x 82.55mm)

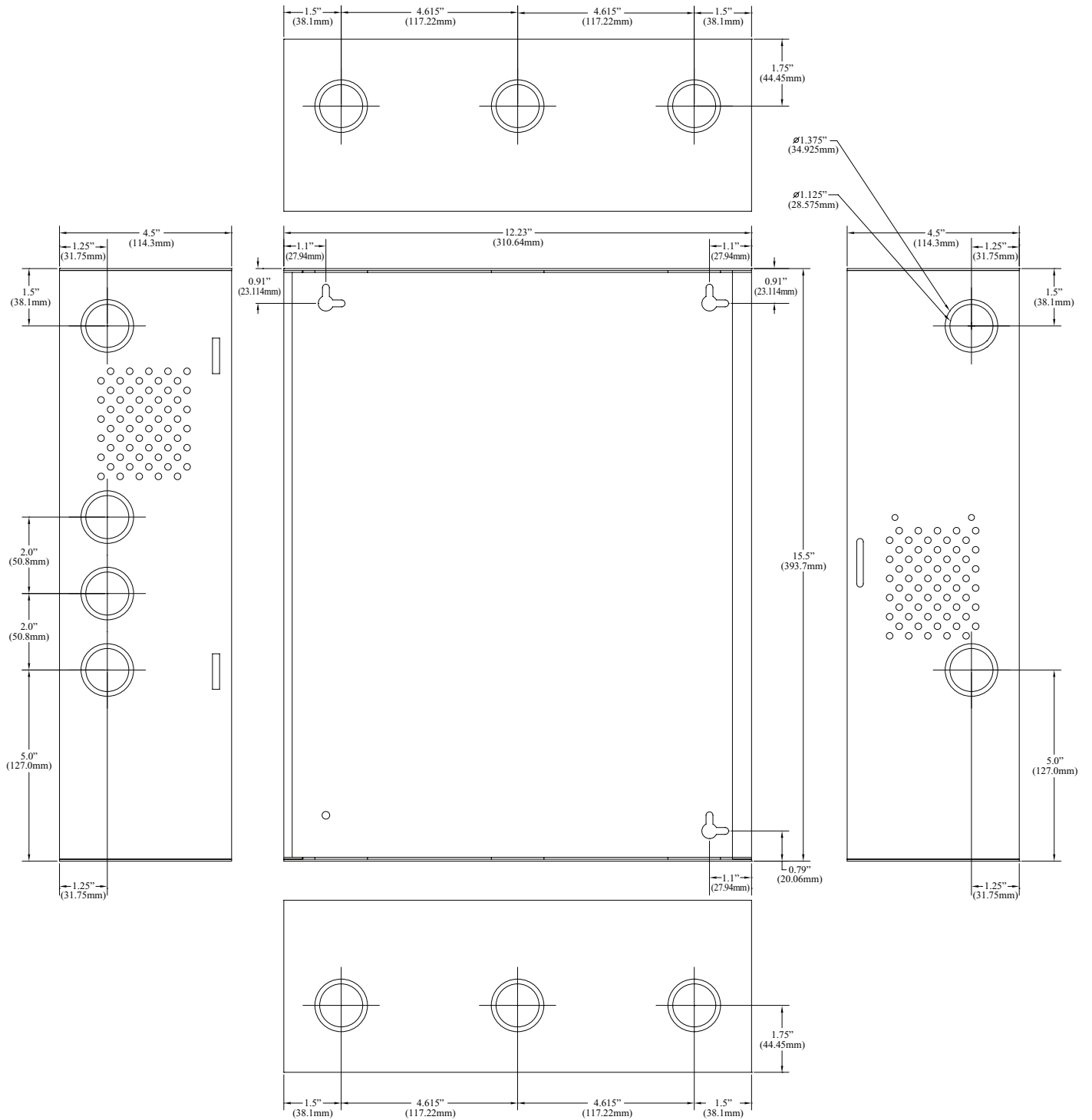


Enclosure Dimensions for:

SMP10C12XX

SMP10PMC12XX

15.5" x 12" x 4.5" (393.7mm x 304.8mm x 114.3mm)



Notes:

Altronix is not responsible for any typographical errors. Product specifications are subject to change without notice.

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