

Overview:

These units will convert a 115VAC / 60Hz input, into a regulated 24VDC output at up to 10 amps of continuous supply current (see specifications).

SMP1024X Series Power Supply Configuration Reference Chart:

Altronix Model Number		Accessory Power Distribution Module(s)	Number of Outputs	Fused Outputs	PTC Outputs	Output Rating (amp)	Supervised	115VAC / 60Hz Input Current (amp)	24VDC Total Output Current (amp)
SMP10C24X	-	1	-	-	10	-	2.7	10	
SMP10PMC24X	-	1	-	-	10	x	2.7	10	
SMP10PM24P4	PD4	4	x	-	3.5	x	2.7	10	
SMP10PM24P4CB	PD4	4	-	x	2.5	x	2.7	10	
SMP10PM24P8	PD8	8	x	-	3.5	x	2.7	10	
SMP10PM24P8CB	PD8	8	-	x	2.5	x	2.7	10	
SMP10PM24P16	PD8	16	x	-	3.5	x	2.7	10	
SMP10PM24P16CB	PD8	16	-	x	2.5	x	2.7	10	

Specifications:

- Maximum charge current .7 amp.
- Filtered and electronically regulated outputs.
- Built-in charger for sealed lead acid or gel type batteries.
- Automatic switch over to stand-by battery when AC fails (zero voltage drop).
- AC input and DC output LED indicators.
- Short circuit and thermal overload protection.
- Complete with power supply, power distribution module (when applicable), enclosure, cam lock & battery leads.

Supervised models only:

- AC fail supervision (form "C" contacts).
- Low battery supervision (form "C" contacts).

Installation Instructions:

The units should be installed in accordance with The National Electrical Code and all applicable Local Regulations.

1. Mount the unit in desired location.
2. Connect AC power to terminals marked [L & N], connect ground to terminal marked [G] (if used).
Use 18 AWG or larger for all power connections (Battery, DC output).
3. Measure output voltage before connecting devices. This helps avoid potential damage.
4. Connect devices to be powered:
 - a. For Power Supply Board connect to terminals marked [+ DC -].
 - b. For Power Distribution Module(s) connect devices to be powered to terminal pairs 1 to 4 marked [1P & 1N thru 4P & 4N] (Fig. 2, pg. 3) or 1 to 8 marked [1P & 1N thru 8P & 8N] (Fig. 3, pg. 3) carefully observing correct polarity.
5. When using stand-by batteries, they must be lead acid or gel type. Connect battery to 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. For Supervised Models Only.
Connect appropriate signaling notification devices to AC Fail & Low Bat supervisory relay outputs marked [N0 C, NC] (Fig. 1A, pg. 3).

LED Diagnostics:
OLS250/OLS257 - Power Supply Board

Red (DC)	Green (AC)	Power Supply Status
ON	ON	Normal operating condition
ON	OFF	Loss of AC, Stand-by battery 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 - Power Distribution Module

Green	Power Distribution Module Status
ON	Normal operating condition.

Terminal Identification:
OLS250/OLS257 - Power Supply Board

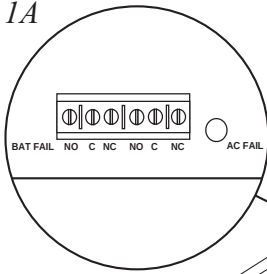
Terminal Legend	Function/Description
L, G, N	Connect 115VAC to these terminals: L to Hot, N to Neutral, G to ground (if used).
+ DC -	24VDC @ 10 amp continuous outputs.
*AC FAIL N.O., C, N.C.	Used to notify loss of AC power, e.g. connect to audible device or alarm panel. Relay normally energized when AC power is present. Contact rating 1 amp @ 120VAC / 28VDC
*Low Battery N.O., C, N.C.	Used to indicate low battery condition, e.g. connect to alarm panel. Relay normally energized when DC power is present. Contact rating 1 amp @ 120VAC / 28VDC Low battery threshold: 24VDC output threshold set @ approximately 21VDC.
- BAT +	Stand-by battery connections. Maximum charge rate .7 amp.

***Note:** Supervised Models Only.

PD4/PD4CB/PD8/PD8CB - Power Distribution Module

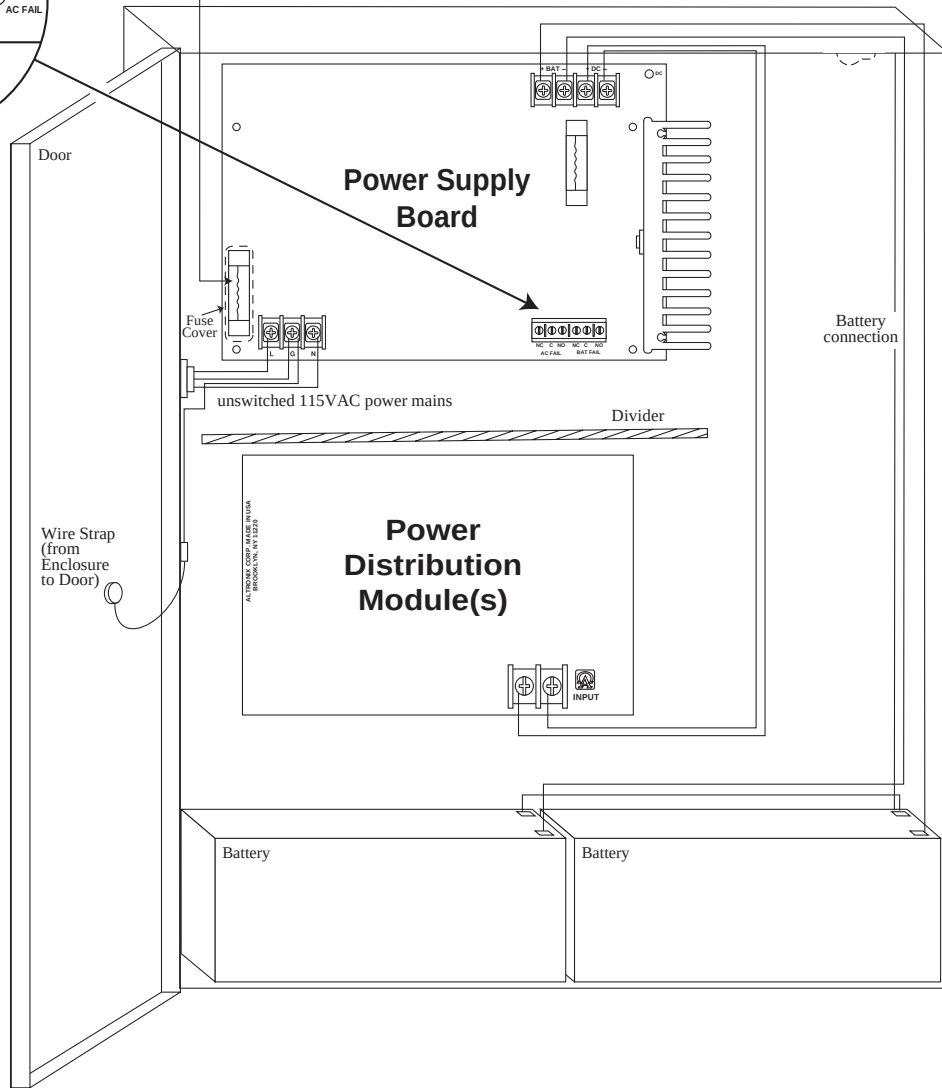
Terminal Legend		Function/Description
PD4/PD4CB	PD8/PD8CB	
1P to 4P	1P to 8P	Positive DC power outputs.
1N to 4N	1N to 8N	Negative DC power outputs.

Fig. 1A



**CAUTION: De-energize unit prior to servicing. For continued protection against fire hazard replace fuses with the same type and rating.
Replace fuse cover before energizing:
Input Fuse rated @ 10 amp, 250VAC
Output Fuse rated @ 15 amp, 32VAC**

Fig. 1



Power Distribution Module(s):

Fig. 2

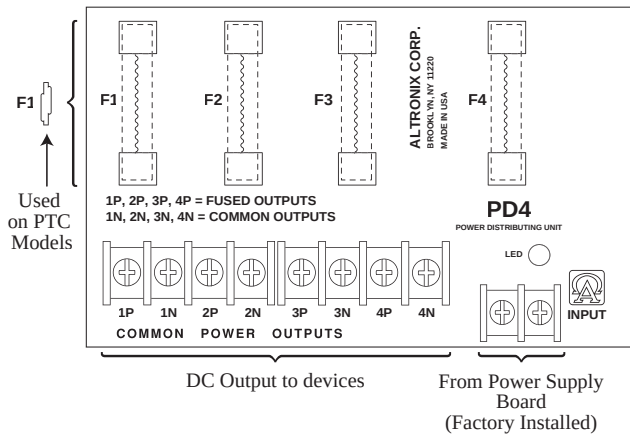
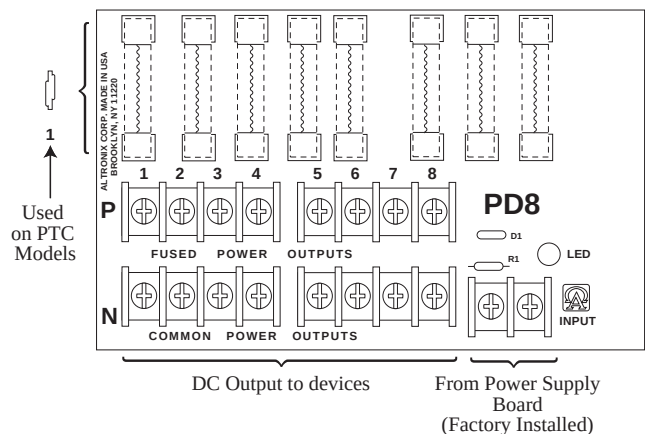


Fig. 3

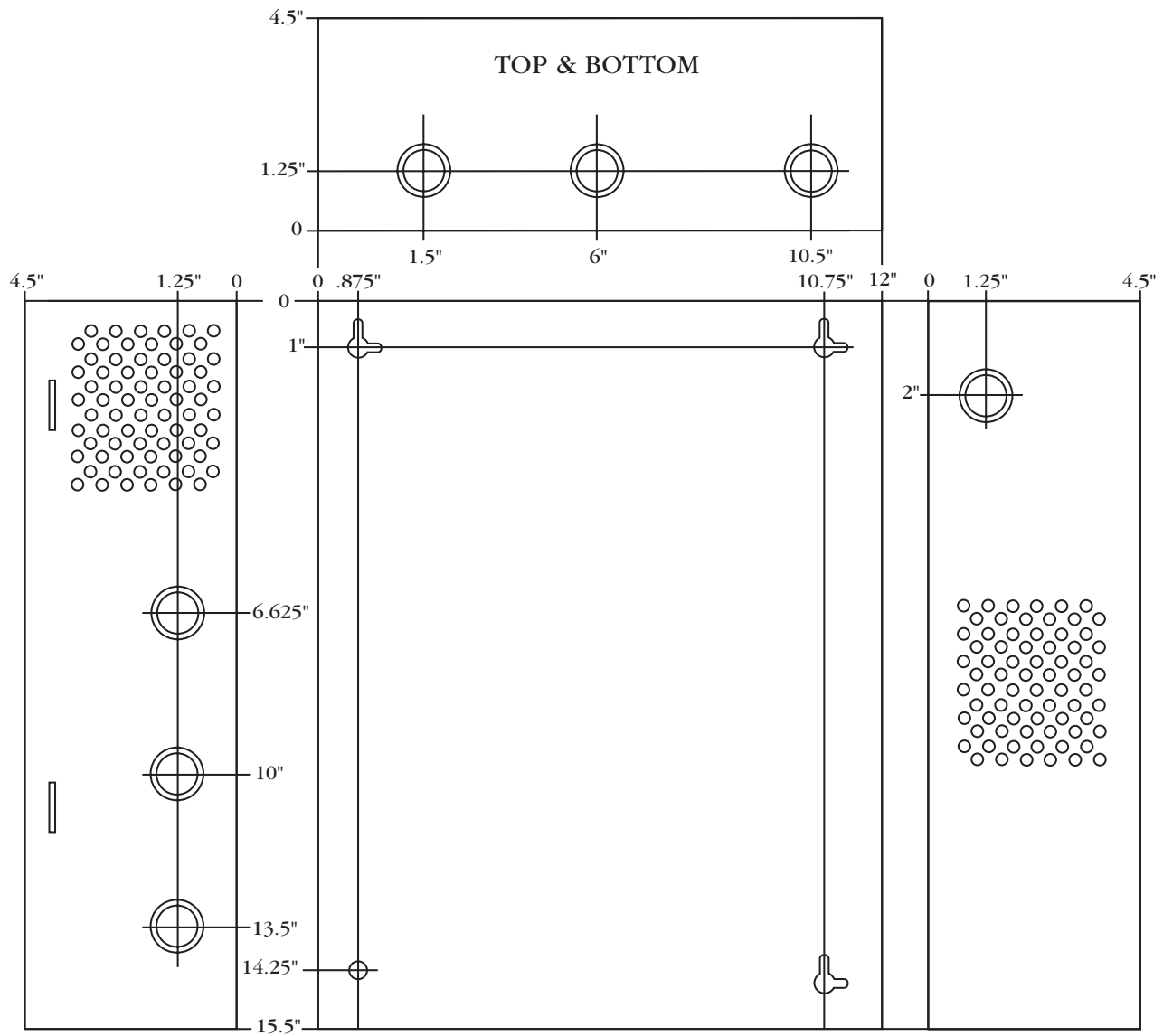


Enclosure Dimensions for:

15.5"H x 12"W x 4.5"D

Enclosure accommodates up to two (2)

12VDC/12AH batteries.



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

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IISMP10C24X - Rev. 102003 C11D