WAYPOINT

WayPoint DC Series

DC Outdoor Power Supply/Chargers

Models Include:

WayPoint3
- 2.5A @ 12VDC or 24VDC
- 115/220VAC input.

WayPoint5
- 3.5A @ 12VDC or 24VDC.
- 115/220VAC input.

WayPoint7
- 6A @ 12VDC or 24VDC.
- 115VAC input.

WayPoint7V
- 6A @ 12VDC or 24VDC.
- 220VAC input.

WayPoint1012V
- 10A @ 12VDC.
- 220VAC input.

Installation Guide

CE

Altronix®

Rev. 080911DCPL

More than just power.™

Installing Company: _____ Service Rep. Name: _____

Address: _____ Phone #: _____

Overview:

Altronix DC Outdoor Power Supply/Chargers provide 12VDC or 24VDC and are designed to be conveniently located where power is required.

WayPoint DC Reference Chart:

Altronix Model Number	Output Current	Output Voltage	SW1		115VAC/60Hz Input Current Draw	220VAC/50Hz Input Current Draw
			12VDC	24VDC		
WayPoint3	2.5A	12VDC or 24VDC	ON	OFF	0.95A	0.6A
WayPoint5	3.5A	12VDC or 24VDC	ON	OFF	0.95A	0.6A
WayPoint7	6A	12VDC or 24VDC	ON	OFF	1.9A	N/A
WayPoint7V	6A	12VDC or 24VDC	ON	OFF	N/A	0.95A
WayPoint1012V	10A	12VDC	N/A		N/A	3.0A

Specifications:

Input:
- Input: 115VAC, 60Hz or 220VAC, 50Hz.

Output:
- 12VDC or 24VDC selectable output (12VDC only for WayPoint1012V).
- Filtered and electronically regulated output.
- Thermal overload and short circuit protection.

Battery Backup:
- Built-in charger for sealed lead acid or gel type batteries.
- Maximum charge current: WayPoint3/5/7/7V: 500mA WayPoint1012V: 700mA.
- Automatic switch over to stand-by battery.

Features:
- AC and DC power LED indicators.
- Ease of installation saves time and eliminates costly labor.
- Includes battery leads.

Accessories:
- Optional PMK1 Pole Mount Kit simplifies installation of outdoor units.

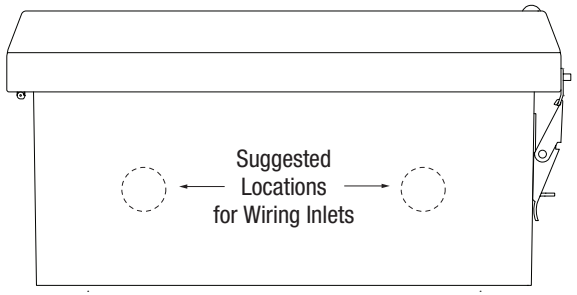
Enclosure:
- NEMA 4/4X, IP66-11 Rated enclosure for outdoor use.
- Enclosure Dimensions (H x W x D approx.): 13.31" x 11.31" x 5.59" (338.1mm x 287.3mm x 142mm)
- Enclosure accommodates up to two (2) 12VDC/7AH batteries.

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.

1. Remove backplane from the enclosure prior to mounting (do not discard hardware).
2. Mark and drill desired inlets on the enclosure to facilitate wiring *(Fig. 1, pg. 3)*.
3. Mount unit in the desired location. For wall mounting refer to *Fig. 4, pg. 7*.
   For pole mounting installation refer to *pg. 7 - (Using Optional Altronix Pole Mount Kit PMK1 - not included)*.
4. Install backplane inside the enclosure with hardware.
5. Set power switch, if applicable, to the OFF position *(Fig. 2c, pg. 4)*.
6. Connect AC power (115VAC or 220 VAC) as follows: Green branch wire connects to earth (safety) ground lug ⏚. *(Fig. 2-3, pgs. 4-5)*.
   Wire gauge range of connectors is 14 AWG to 11 AWG (1.6mm to 2.5mm diameter).
7. Select the desired DC output voltage by setting SW1 to the appropriate position for models WayPoint3, WayPoint5, WayPoint7, and WayPoint7V *(Reference Chart above) (Fig. 2a, pg. 4)*.
   WayPoint1012V provides 12VDC only.
8. Set power switch to the ON position *(Fig. 2b, pg. 4)*.
9. Measure output voltage at the terminals marked [– DC +] before connecting devices *(Fig. 2b, pg. 4, Fig. 3a, pg. 5)*. This helps avoiding potential damage.
   Note: Power supplies mounted in weatherproof enclosures should be derated by approximately 50% due to the harsh environmental conditions.
10. Set power switch to the OFF position *(Fig. 2b, pg. 4)*.

Fig. 1



Bottom of Enclosure

11. Connect devices to be powered to the terminals marked [– DC +] *(Fig. 2b, pg. 4, Fig. 3b, pg. 5).*
12. Connect optional stand-by battery to the terminals marked [– BAT +]. Battery leads included. Enclosure accommodates up to two (2) 12VDC/7AH batteries. If larger batteries are required, they need to be mounted in a separate NEMA rated enclosure adjacent to the power supply *(Fig. 2b, pg. 4, Fig. 3b, pg. 5).*
    Note: When batteries are not used, a loss of AC will result in a loss of output voltage.
    For outdoor battery backup, battery enclosure must have sufficient ventilation. Use Altronix Vent2 kit.
13. Set power switch, if applicable, to the ON position *(Fig. 2c, pg. 4).*
14. Upon completion of the wiring secure enclosure door with latches and optional Altronix Lock1WP.

CAUTION: Equipment to be installed / serviced by authorized / trained personnel only. Shut branch circuit power before installing / servicing equipment.

WARNING: When installing in a non-restricted service area, use lock or other fastened means on door latches. This installation should be made by qualified service personnel and should conform to the National Electrical Code and all local codes.

LED Diagnostics:

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. Short circuit or thermal overload condition.
OFF	OFF	No DC output. Loss of AC. Discharged or no battery present.

Terminal Identification:

Terminal Legend	Function/Description	
– DC +	WayPoint3: WayPoint5: WayPoint7: WayPoint7: WayPoint1012V:	12VDC or 24VDC @ 2.5A supply current. 12VDC or 24VDC @ 3.5A supply current. 12VDC or 24VDC @ 6A supply current. 12VDC or 24VDC @ 6A supply current. 12VDC @ 10A supply current.
– BAT +	Stand-by battery connections. Maximum charge rate 500mA (700mA for WayPoint1012V).	

Fig. 2 - **WayPoint3, WayPoint5, WayPoint7, and WayPoint7V.**

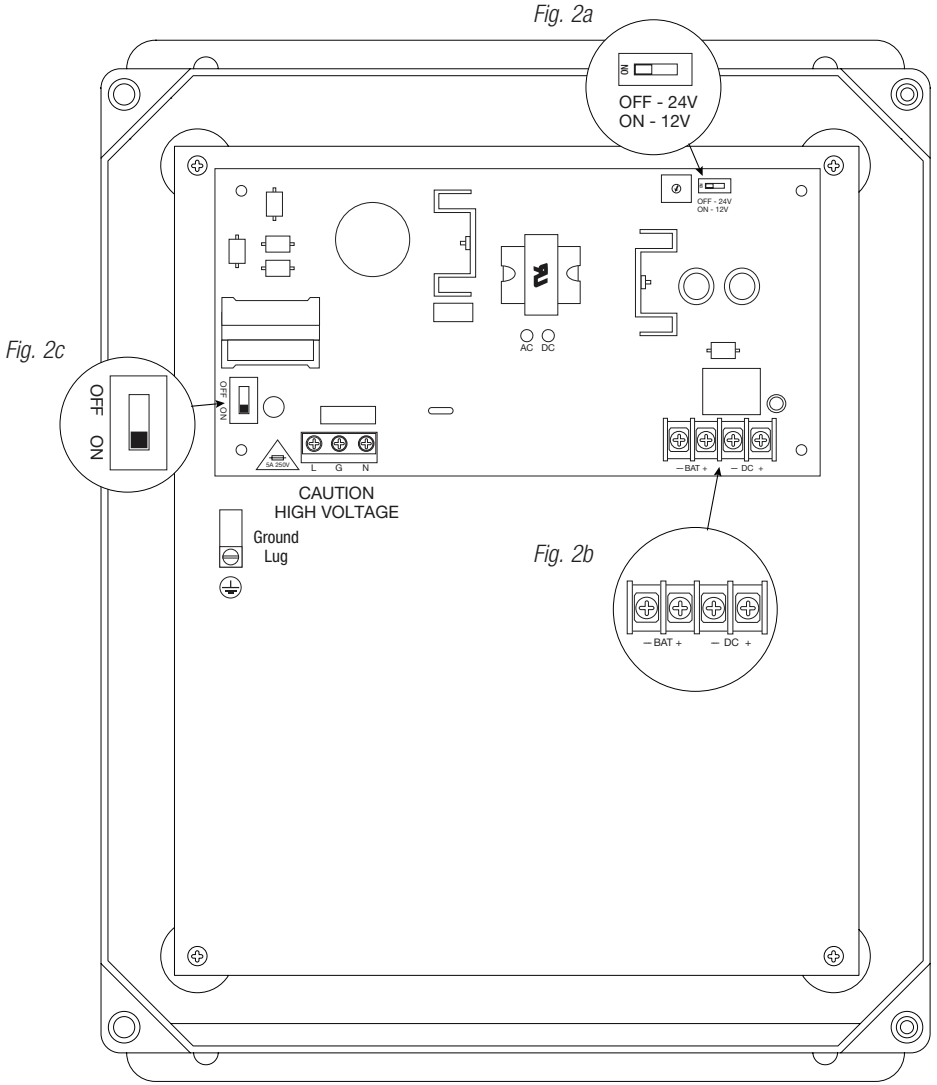


Fig. 3 - **WayPoint1012V**

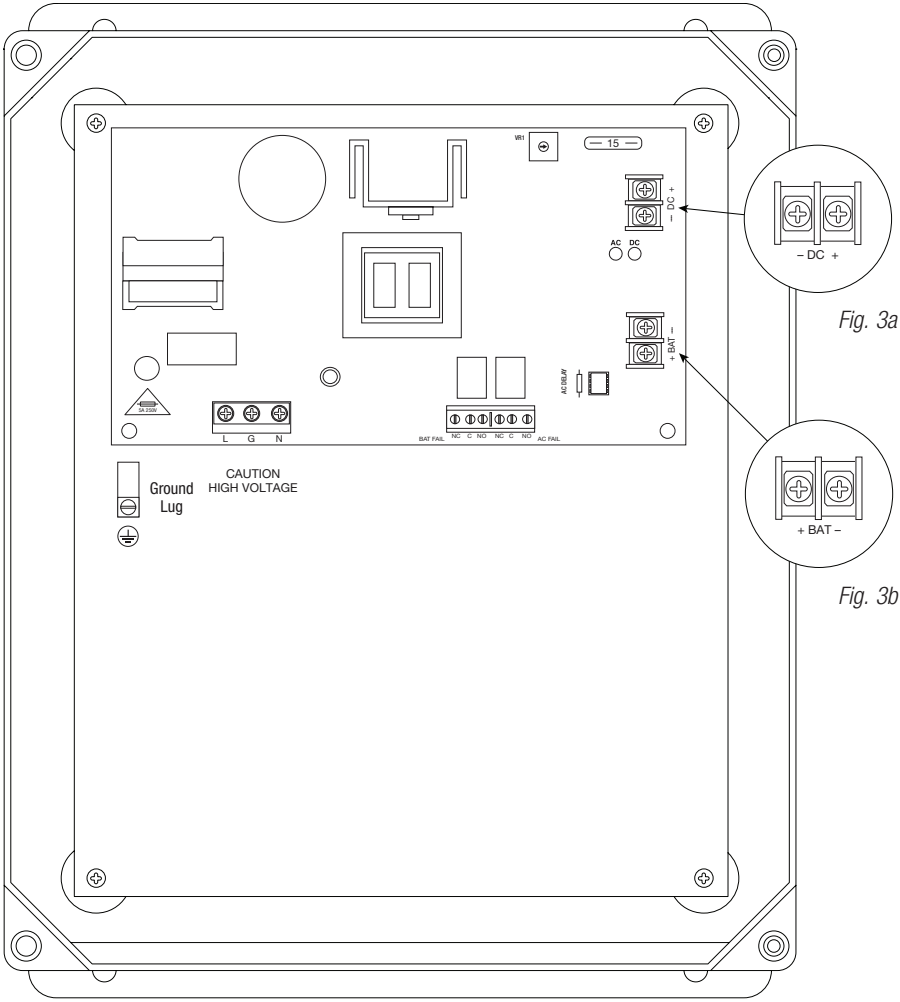


Fig. 3a

Fig. 3b



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.

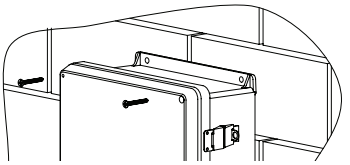


CAUTION: To reduce the risk of electric shock do not open enclosure.
There are no user serviceable parts inside.
Refer servicing to qualified service personnel.

Wall Mount Installation:

1- Place unit at desired location and secure with mounting screws *(not included) (Fig. 4, pg. 7).*

Fig. 4



Pole Mounting Using Optional Pole Mount Kit PMK1:

This installation should be made by qualified service personnel. This product contains no serviceable parts. PMK1 outdoor pole mount kit is designed to simplify the installation of Altronix outdoor rated power supplies and accessories housed in models WP3 and WP4 NEMA rated enclosures. PMK1 can be mounted on 2" to 8" (50.8mm to 203.2mm) diameter round or 5" (127mm) square poles. Brackets are designed for use with the Wormgear Quick Release Straps (two included).

1. Thread one (1) wormgear quick release strap through the slots on the back of a mounting bracket *(Fig. 5, pg. 7).*
2. Once the desired height of the top Pole Mount bracket is achieved, tighten the straps down by sliding open end of the strap through the locking mechanism on the strap, then tighten the screw with flat head screwdriver or 5/16" hex socket driver *(Fig. 6, pg. 7 and Fig. 8, pg. 7).*

Fig. 5

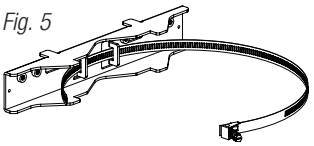


Fig. 6

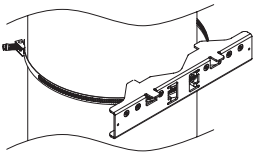
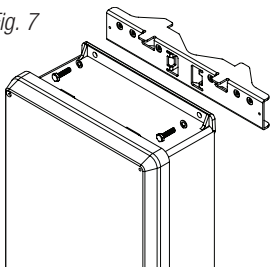


Fig. 7



3. Attach the bottom bracket to the enclosure by inserting bolts through the flange of the enclosure and into the bracket, tightening bolts with a 7/16" hex socket *(Fig. 7, pg. 7).*
4. Thread the second wormgear quick release strap through the slots on the back of the bottom mounting bracket *(Fig. 8, pg. 7).*
5. Mount enclosure onto the top bracket by inserting bolts through flange of the enclosure and into the bracket, tightening bolts with a 7/16" hex socket *(Fig. 7, pg. 7).*
6. Tighten the straps of the bottom bracket down by sliding the open end of the strap through the locking mechanism on the strap, then tighten screw with flat head screwdriver or 5/16" hex socket driver *(Fig. 8, pg. 7).*
7. Clip excess straps.

Fig. 8

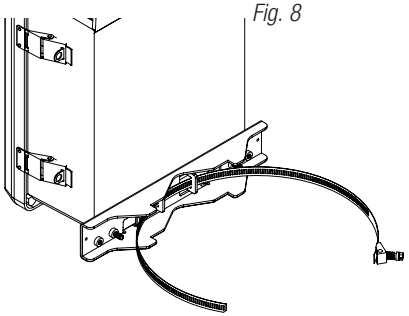


Fig. 9
2" to 8"(50.8mm to 203.2mm) diameter round pole

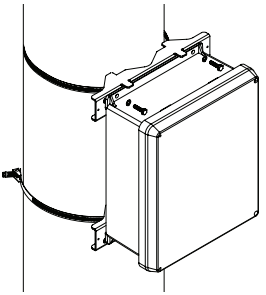
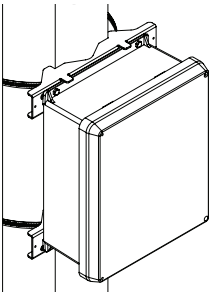


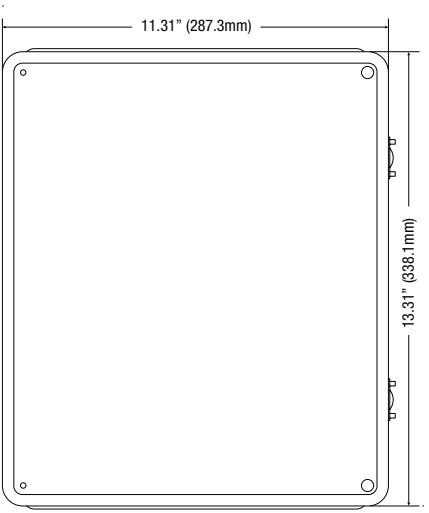
Fig. 9a
5" (127mm) square pole



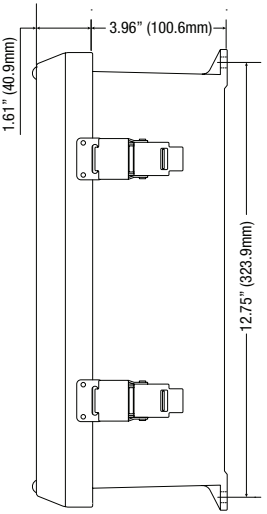
Enclosure Dimensions (H x W x D approximate)**:**

13.31" x 11.31" x 5.59" (338.1mm x 287.3mm x 142mm)

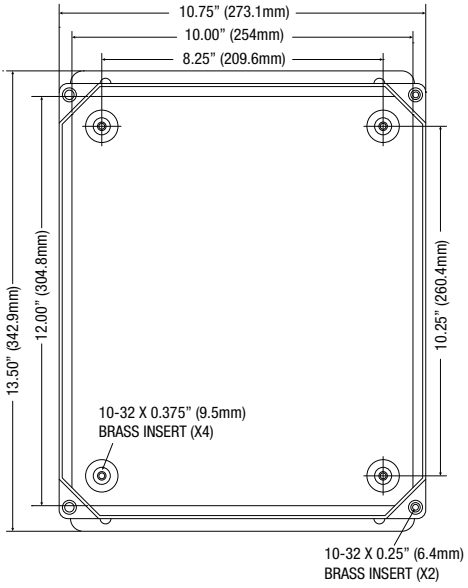
FRONT VIEW



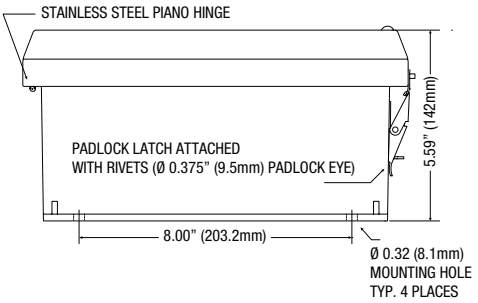
RIGHT SIDE VIEW



FRONT VIEW COVER REMOVED



END VIEW



Altronix is not responsible for any typographical errors.

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