



WayPoint1024

DC Outdoor Power Supply/Charger

Installation Guide



More than just power.™

Rev. 090913

Installing Company: _____ Service Rep. Name: _____

Address: _____ Phone #: _____

Overview:

Altronix WayPoint1024 DC Outdoor Power Supply/Charger provides 24VDC @ 10A. It is designed to be conveniently located where power is required.

Specifications:

Input:

- Input 115VAC, 60Hz, 4.5A.

Output:

- 24VDC output.
- 10A continuous supply current.
- 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 700mA.
- Automatic switch over to stand-by battery.

Features:

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

Accessories:

- Optional PMK1 Pole Mount Kit simplifies installation.

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).
 - 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. Refer to *Pg. 7* for pole or wall mounting instructions.
4. Install backplane inside the enclosure with hardware.
5. Connect AC power (115VAC) to the terminals marked [L] and [N], connect ground to the terminal marked [G] (*Fig. 2, pg. 4*).
Wire gauge range of connectors is 14 AWG to 11 AWG (1.6mm to 2.5mm diameter).
6. Measure output voltage at the terminals marked [+ DC -] before connecting devices (*Fig. 2, pg. 4*).
This helps avoiding potential damage.

Note: Power supplies mounted in weatherproof enclosures should be derated by approximately 50% due to the harsh environmental conditions.

7. Connect devices to be powered to the terminals marked [+ DC -] (*Fig. 2, pg. 4*).
8. Connect optional stand-by batteries to the terminals marked [- BAT +]. Battery leads included.
Enclosure accommodates up to two (2) 12VDC/7AH batteries.
A separate enclosure is needed for larger batteries (*Fig. 2, pg. 4*).

Note: When batteries are not used, a loss of AC will result in a loss of output voltage.

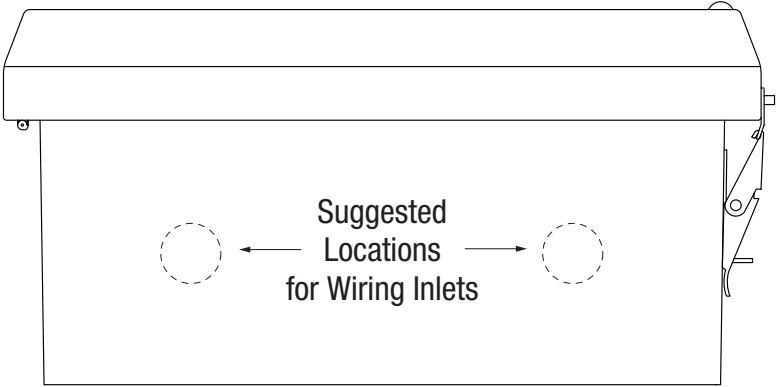
For outdoor battery backup, battery enclosure must have sufficient ventilation. Use Altronix Vent2 kit.

9. Connect appropriate signaling notification devices to terminals marked [AC FAIL] and [BAT FAIL] (*Fig. 2, pg. 4*) supervisory relay outputs.
10. 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.

Fig. 1



Bottom of Enclosure

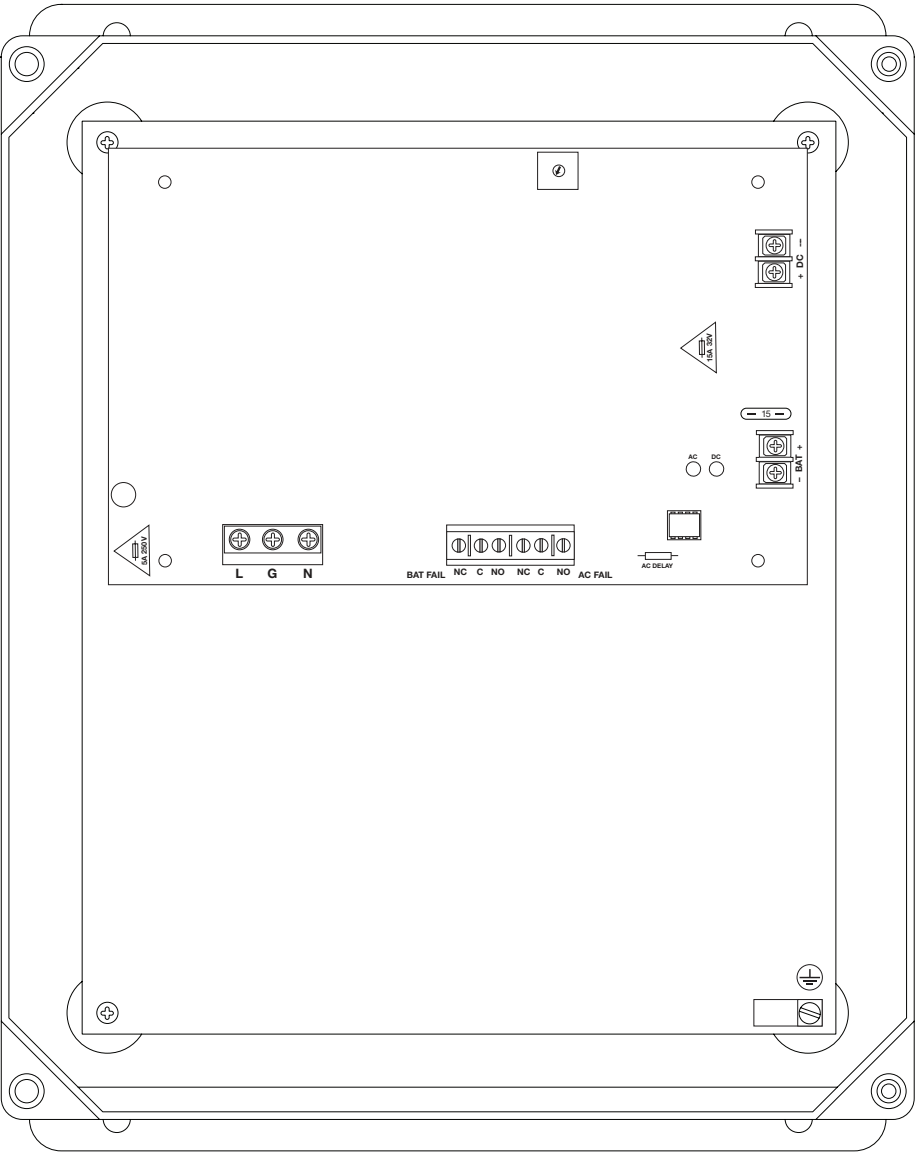
LED Diagnostics:

Red (DC)	Green (AC1)	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.

Terminal Identification:

Terminal Legend	Function/Description
L, N	Connect 115VAC, 50/60Hz to these terminals: L to hot, N to neutral.
+ DC –	24VDC @ 8A continuous, 10A in alarm non power-limited output. 10A continuous when batteries are not used
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 @ 28VDC. AC or brownout fail is reported within 1 minute of event. To delay reporting for up to 6 hrs., cut “AC delay” jumper and reset power to unit.
Bat Fail NC, C, NO	Indicates low battery condition, e.g. connect to alarm panel. Relay normally energized when DC power is present. Contact rating 1A @ 28VDC. A removed battery is reported within 5 minutes. Battery reconnection is reported within 1 minute. Low battery threshold: 24VDC output threshold set @ approximately 21VDC.
– BAT +	Stand-by battery connections. Maximum charge current 700mA.

Fig. 2 - WayPoint1024



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
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.

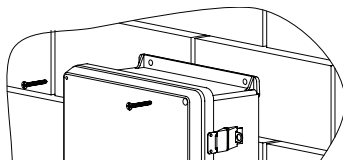
Notes:

Notes:

Wall Mount Installation

- 1- Place unit at desired location and secure with mounting screws *(not included)* (Fig. 3, pg. 7).

Fig. 3



Pole Mounting Using Optional Pole Mount Kit PMK1 (not included):

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. 4, 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. 5, pg. 7 and Fig. 7, pg. 7).

Fig. 4

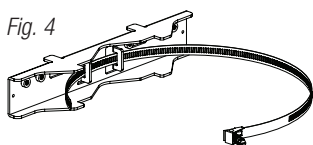


Fig. 5

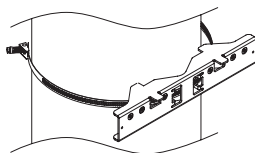
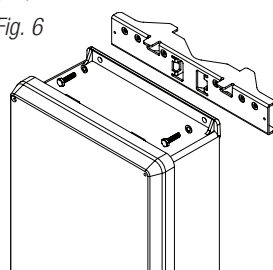


Fig. 6



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. 5, pg. 7).
4. Thread the second wormgear quick release strap through the slots on the back of the bottom mounting bracket (Fig. 4, 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. 6, 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. 7, pg. 7).
7. Clip excess straps.

Fig. 7

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

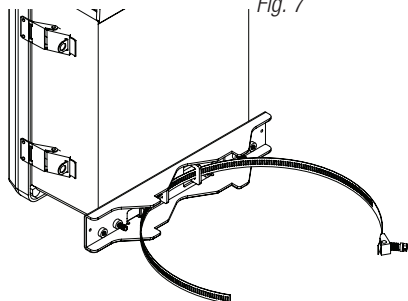
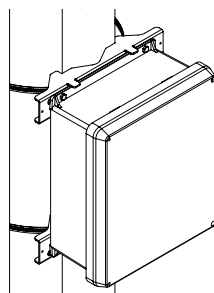


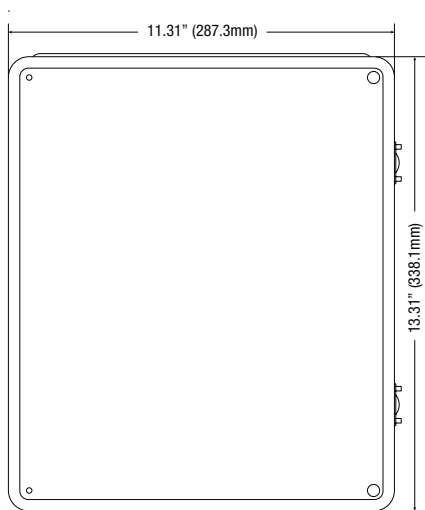
Fig. 8a
5" (127mm) square pole



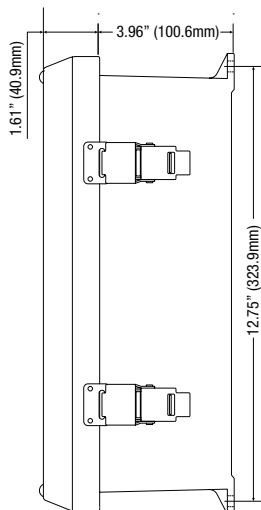
Enclosure Dimensions (H x W x D approximate):

13.3" x 11.3" x 5.59" (338.1mm x 287.3mm x 142mm)

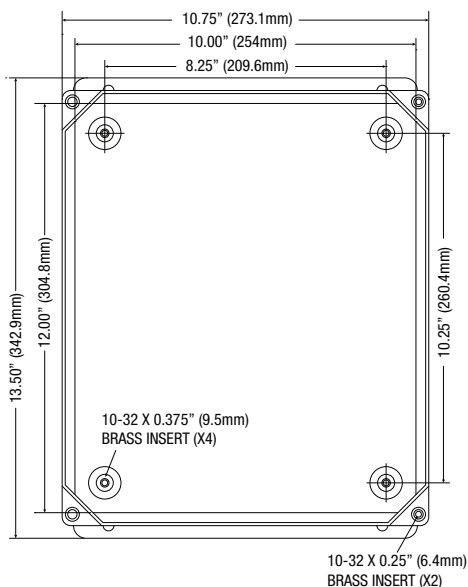
FRONT VIEW



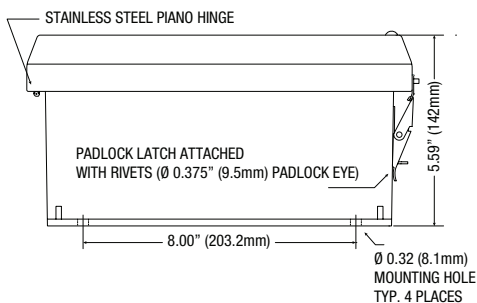
RIGHT SIDE VIEW



FRONT VIEW COVER REMOVED



END VIEW



Altronix is not responsible for any typographical errors.

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