

LPS3WP Series

Outdoor Linear Power Supply/Charger

Installation Guide

Models Include:

LPS3WP12

- 12VDC @ 2.5A.

LPS3WP24

- 24VDC @ 2.5A.

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Overview:

Altronix LPS3WP outdoor linear power supplychargers are specifically designed to provide the power needed by the most demanding security and access control applications. Unit's unique NEMA 4/IP65 rated enclosure allows installation right at the outdoor equipment it is designed to power.

LPS3WP Series Power Supply Configuration Reference Chart:

Altronix Model Number	Output Current	Output Rating	Maximum Charge Current	115VAC, 50/60Hz Input Current
LPS3WP12	12VDC	2.5A	0.5A	0.5A
LPS3WP24	24VDC	2.5A	0.5A	0.95A

Specifications:

Input:

- 115VAC 50/60Hz.

Output:

- LPS3WP12: 12VDC
- LPS3WP24: 24VDC
- 2.5A continuous supply current.
- Filtered and electronically regulated output.
- Short circuit and thermal overload protection.

Battery Backup:

- Built-in charger for sealed lead acid or gel type batteries.
- Maximum charge current 500mA.
- Automatic switch over to stand-by battery when AC fails (zero voltage drop).
- Fused battery protection.

Visual Indicators:

- AC/DC power LED indicator.

Enclosure Dimensions (H x W x D):

12" x 8" x 6" (304.8mm x 203.2mm x 152.4mm).

Installation Instructions:

The LPS3WP should be installed in accordance with The National Electrical Code and all applicable Local Regulations.

1. Remove back plate inside enclosure by removing the four (4) mounting screws (*Fig. 2, pg. 5*).
2. Mark and drill desired knockouts on the enclosure to facilitate wiring (*Fig. 1, pg. 4*).
3. Secure back plate inside enclosure with the four (4) mounting screws (*Fig. 2, pg. 5*).
4. Unit can be wall or pole mounted.

Wall Mount:

- Mark and drill holes to line up with the top and bottom holes of the enclosure flange.
- Secure enclosure with appropriate fasteners (*Fig. 3, pg. 7*).

Pole Mount:

- Refer to the detailed pole mount instructions (*pg. 7*).
- Secure enclosure to earth ground.

5. Connect AC power to the black and white flying leads of the transformer (*Fig. 2, pg. 5*). Use 18 AWG or larger for all power connections (Battery, DC output).
 6. Measure output voltage at the terminals marked [- DC +] before connecting devices. This helps avoiding potential damage.
 7. Connect devices to be powered to the terminals marked [- DC +], carefully observing polarity (*Fig. 2, pg. 5*).
- Note:** Power supplies mounted in weatherproof enclosures should be derated by approximately 50% to account for the extreme environmental conditions.
8. Connect optional stand-by battery to the terminals marked [- BAT +]. Battery leads included. (*A separate enclosure is needed for batteries*). (*Fig. 2, pg. 5*).

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

Fig. 1

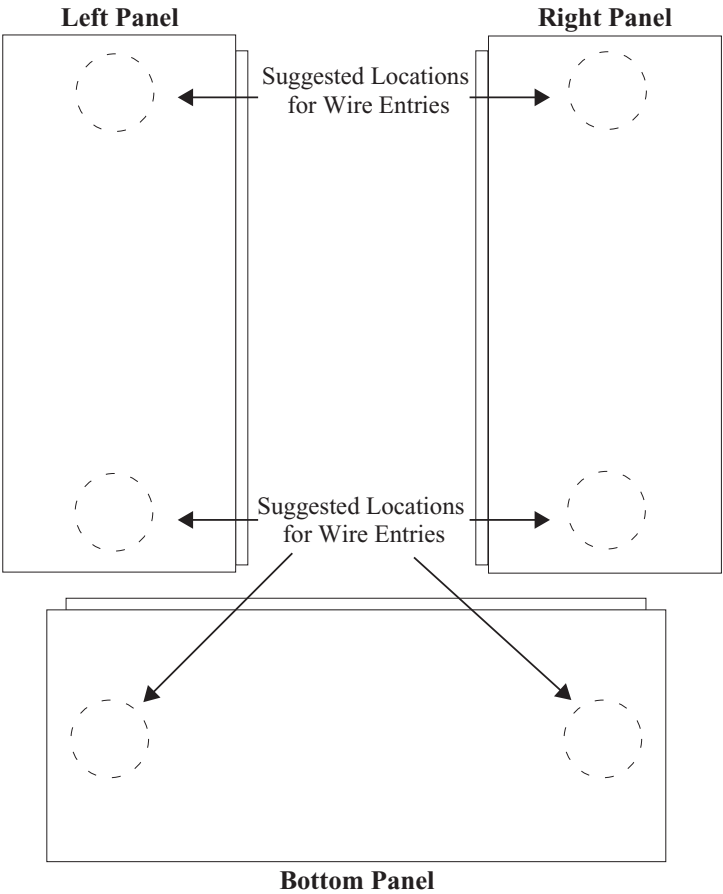
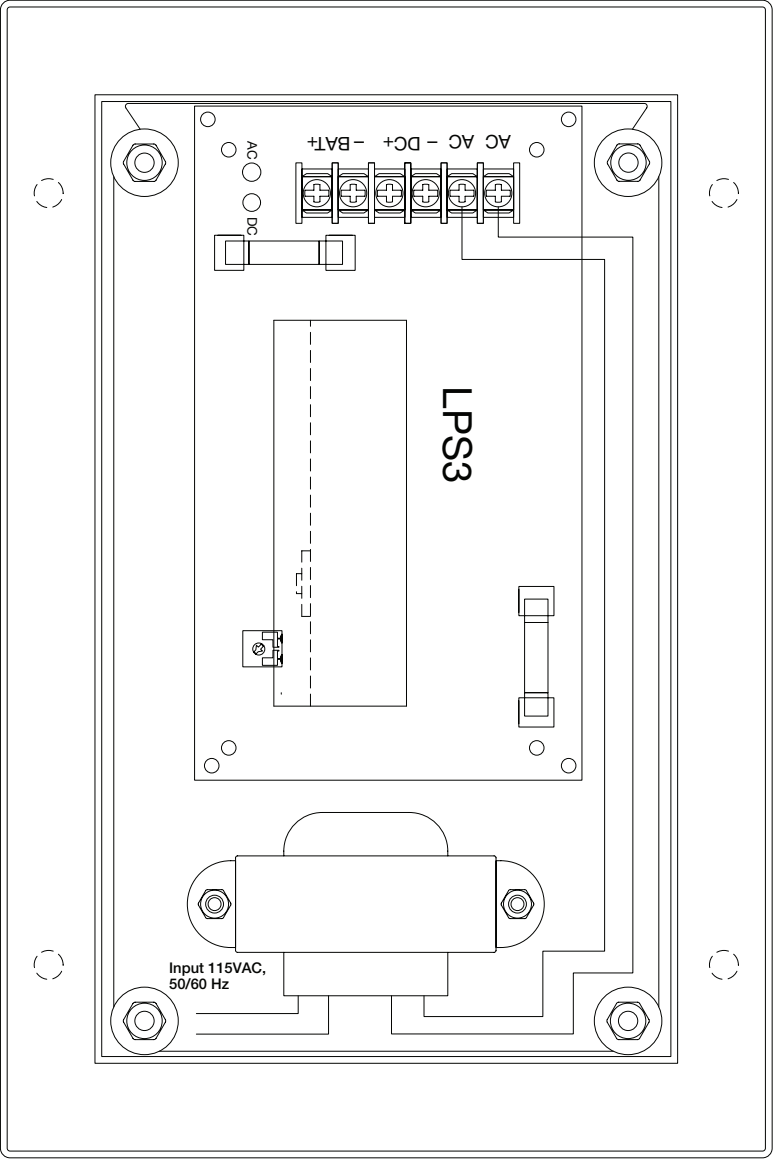


Fig. 2



LED Diagnostics:

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.

Terminal Identification:

Terminal Legend	Function/Description
AC AC	Low voltage AC input: LPS3WP12 - 16.5VAC/56VA LPS3WP24 - 28VAC/100VA.
- BAT +	Stand-by battery connections.
- DC +	LPS3WP12 - 12VDC @ 2.5A continuous output. LPS3WP24 - 24VDC @ 2.5A continuous output.



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

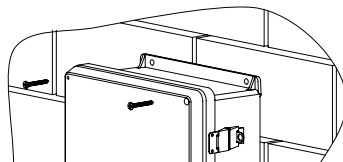


CAUTION: To reduce the risk of electric shock do not open enclosure. There are no user serviceable parts inside. Refer servicing to qualified service personnel.

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 is intended for use with Altronix outdoor rated power supplies or accessories housed in WP1, WP2, WP3 and WP4 enclosures. 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

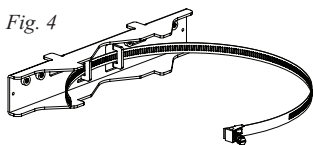


Fig. 5

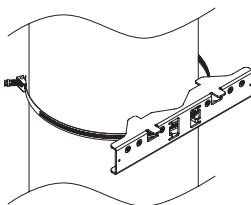
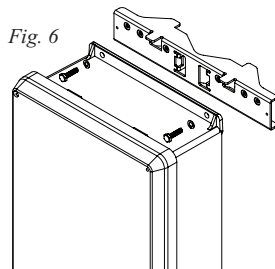


Fig. 6



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. 6, 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. 4, pg. 7).
7. Clip excess straps.

Fig. 8

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

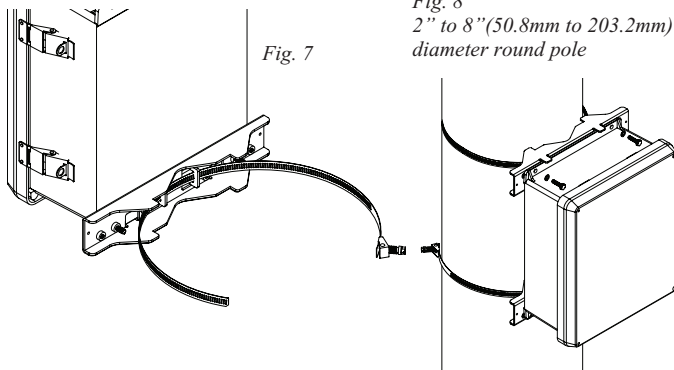
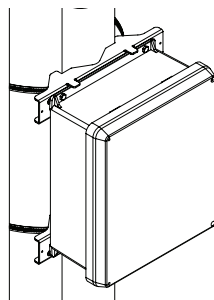


Fig. 7

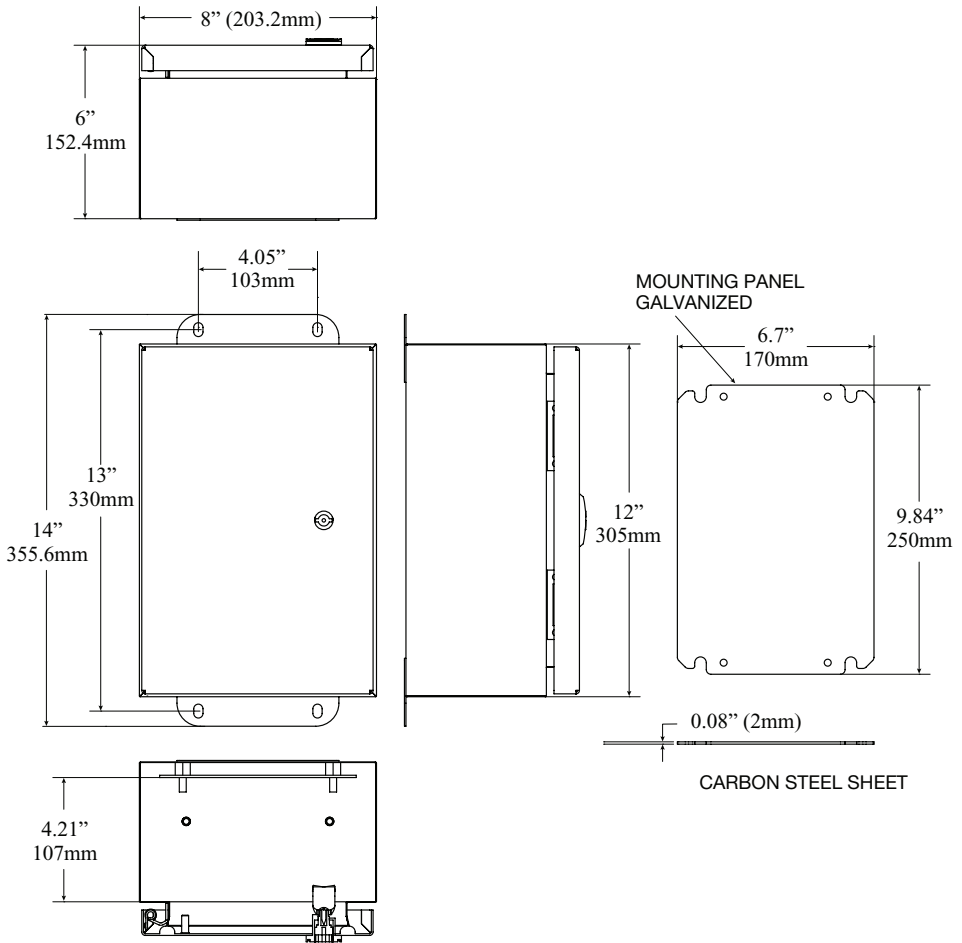
Fig. 8a

5" (127mm) square pole



Enclosure Dimensions (H x W x D approx.):

12" x 8" x 6" (304.8mm x 203.2mm x 152.4mm)



Altronix is not responsible for any typographical errors.

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