



# LPS3C12X220

## Linear Power Supply/Charger

### Overview:

Altronix LPS3C12X220 linear power supply/charger is specifically designed to provide the power needed by the most demanding security and access control applications. It converts a 220VAC 50/60Hz input to a 2.5A, 12VDC output.

### Specifications:

#### Input:

- 220VAC (working range 198VAC-256VAC), 50/60Hz rated @ 0.25A.

#### Output:

- 12VDC output.
- 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 (circuit breaker available).

#### Visual Indicators:

- AC/DC power LED indicator.

#### Features:

- Includes battery leads.
- Enclosure:
  - Combination knockouts are 1/2" and 3/4".
  - Accommodates one (1) 12VDC/12AH battery.

#### Enclosure Dimensions (H x W x D):

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

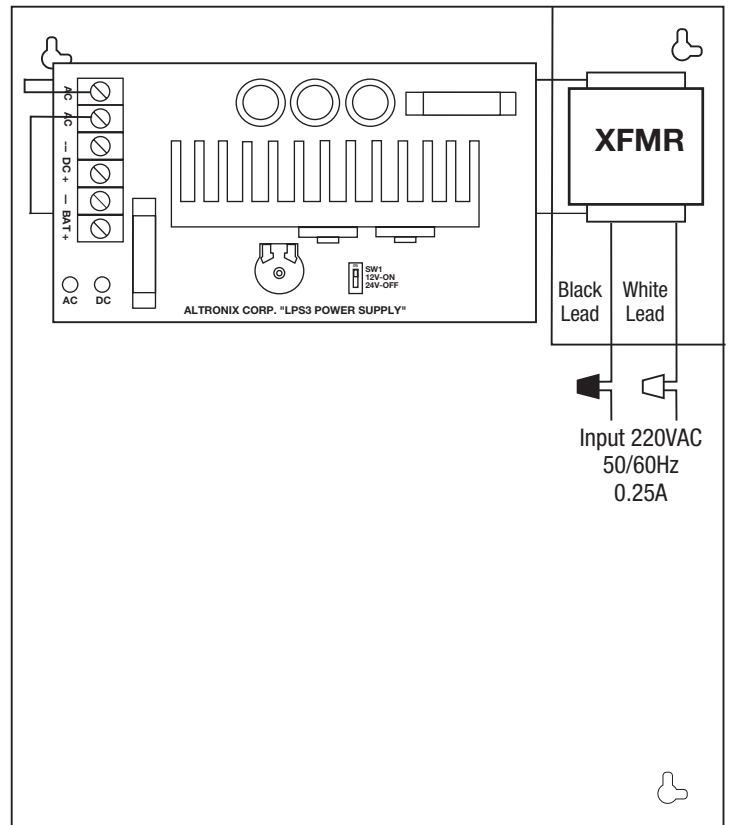


Fig. 1

### Installation Instructions:

LPS3C12X220 should be installed in accordance with the National Electrical Code and all applicable Local Regulations.

1. Mount the LPS3C12X220 in the desired location.
2. Connect AC power to the black and white flying leads of the transformer (Fig. 1). 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 (220VAC 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 to the terminals marked [- DC +] (Fig. 1).
5. Connect battery to the terminals marked [- BAT +] (Fig. 1) on the unit (battery leads included).

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

### Maintenance:

Unit should be tested at least once a year for the proper operation as follows:

**Output Voltage Test:** Under normal load conditions the DC output voltage should be checked for proper voltage level.

**Battery Test:** Under normal load conditions check that the battery is fully charged, check specified voltage both at the battery terminal and at the board terminals marked [- BAT +] to ensure that there is no break in the battery connection wires.

**Note:** Maximum charging current under discharge is 500mA.

**Note:** Expected battery life is 5 years; however, it is recommended changing batteries in 4 years or less if needed.

## LED Diagnostics:

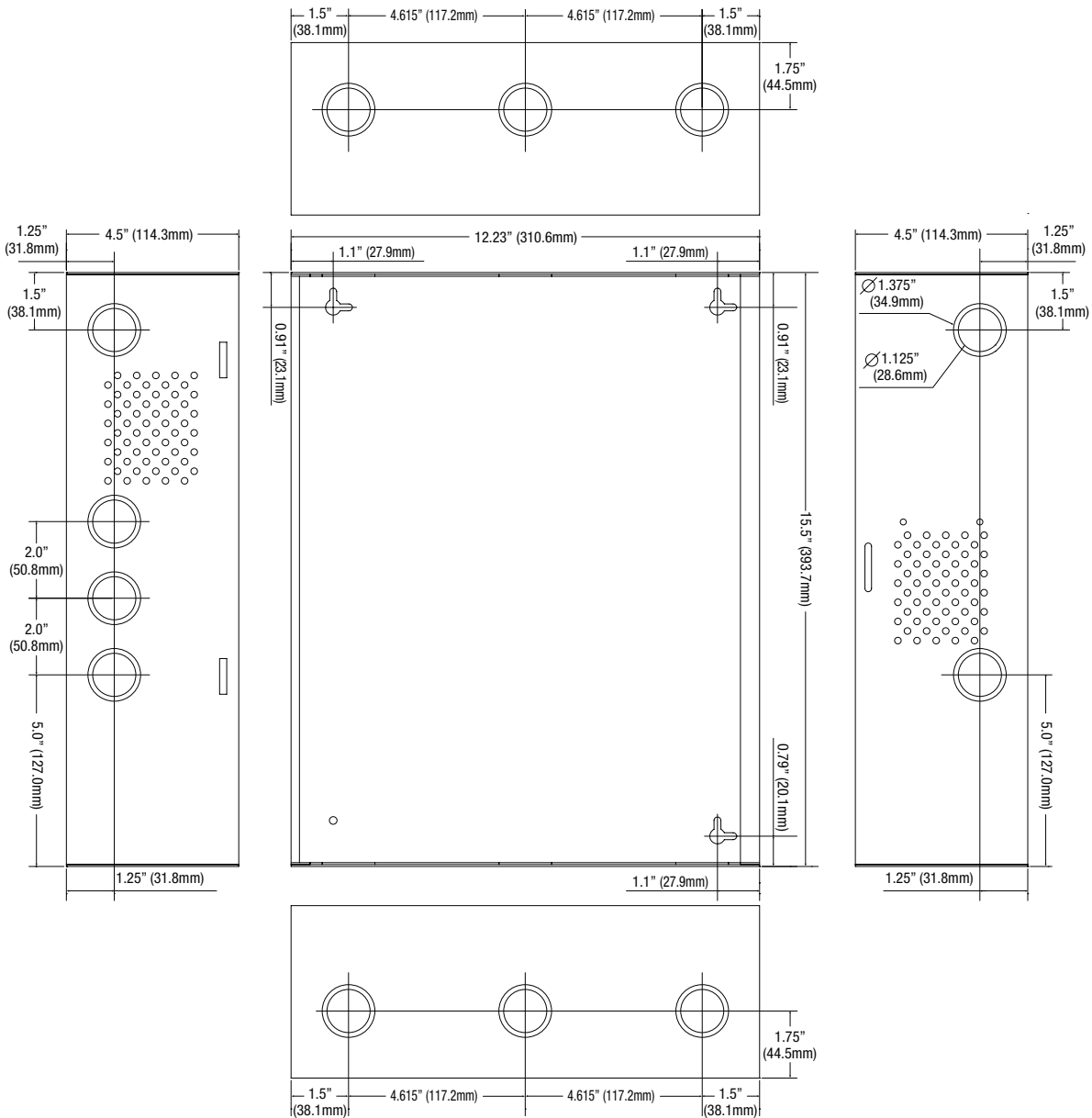
Red (DC)	Green (AC)	Power Supply Status
ON	ON	Normal operating condition.
ON	OFF	Loss of AC. Stand-by battery supplying power.
OFF	ON	No DC output. Short circuit or thermal overload condition or defective unit.
OFF	OFF	No DC output. Loss of AC. Discharged or no battery present.

## Terminal Identification:

Terminal Legend	Function/Description
AC/AC	Low voltage AC input.
- DC +	12VDC @ 2.5A continuous output.
- BAT +	Stand-by battery connections. Maximum charge rate 500mA.

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

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



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

140 58th Street, Brooklyn, New York 11220 USA | phone: 718-567-8181 | fax: 718-567-9056  
 website: www.altronix.com | e-mail: info@altronix.com | Lifetime Warranty  
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