LPS3C24X220
Linear Power Supply/Charger

Overview:
Altronix LPS3C24X220 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 60Hz input to a 2.5A 24VDC continuous power-limited output.

Specifications:
Input:
- 220VAC (working range 198VAC-256VAC), 50/60Hz 0.5A.

Output:
- 24VDC 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).
- Battery leads included.

Visual Indicators:
- AC/DC power LED indicator.

Enclosure:
- Enclosure dimensions (H x W x D approximate): 15.5" x 12" x 4.5" (393.7mm x 304.8mm x 114.3mm).
- Combination knockouts are 1/2" and 3/4".
- Accommodates up to two (2) 12VDC/12AH batteries.

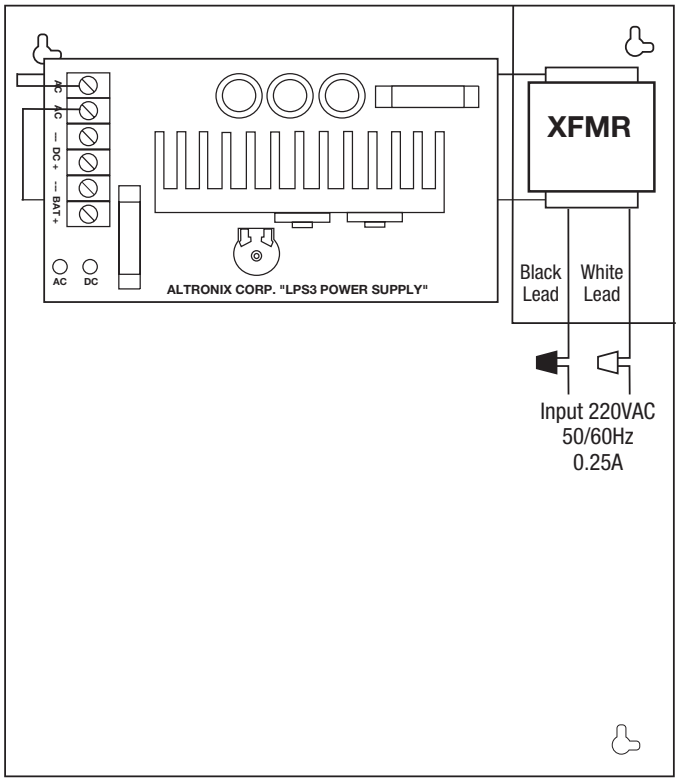


Fig. 1

Installation Instructions:
LPS3C24X220 should be installed in accordance with The National Electrical Code and all applicable Local Regulations.

1. Mount LPS3C24X220 in the desired location.
2. Connect AC power to the black and red 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) as marked on the unit (battery leads included).
   Note: When batteries are not used, a loss of AC will result in 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 (see power supply voltage output specifications chart).
Battery Test: Under normal load conditions, check that the battery is fully charged, check specified voltage both at 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.

Terminal Identification:

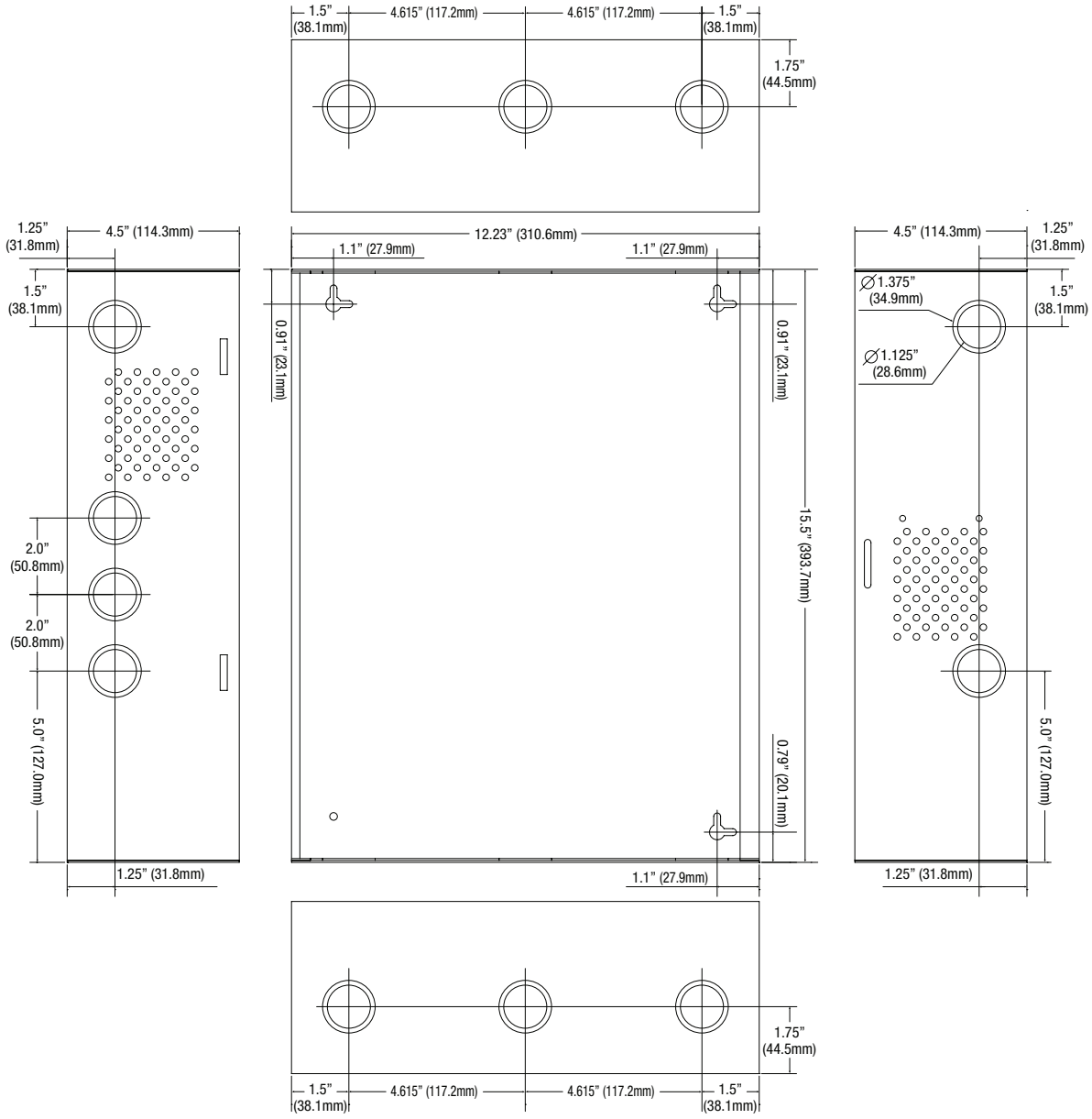
Terminal Legend	Function/Description
AC/AC	Low voltage AC input (28VAC 100VA).
– BAT +	Stand-by battery connections.
– DC +	24VDC @ 2.5A continuous output.

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 missing stand-by battery. No DC output.

Enclosure Dimensions (H x W x D approximate):

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.

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