



LPS3C24X Linear Power Supply/Charger

Overview:

LPS3C24X linear power supply/charger is specifically designed to provide the power needed by the most demanding security and access control applications. It converts a 115VAC 50/60Hz input to a 2.5A 24VDC continuous output.

Specifications:

Input:

- Input 115VAC 50/60Hz, 0.7A.

Output:

- 24VDC output.
- 2.5A continuous supply current.
- Filtered and electronically regulated output.
- Thermal and short circuit protection with auto reset.

Battery Backup:

- Automatic switchover to stand-by battery when AC Fails.
- Built-in charger for sealed lead acid or gel type batteries.
- Maximum charge current 0.5A.
- Fused battery protection (circuit breakers available).
- Includes battery leads.

Visual Indicators:

- AC input and DC output LED indicators.

Enclosure Dimensions (H x W x D):

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

Power Supply Voltage Output Specifications:

Output VDC	Maximum Load DC
24VDC	2.5A

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. Product is intended for indoor use only.

1. Mount unit in the desired location. Mark and predrill holes in the wall to line up with the top two keyholes in the enclosure. Install two upper fasteners and screws in the wall with the screw heads protruding. Place the enclosure's upper keyholes over the two upper screws; level and secure. Mark the position of the lower two holes. Remove the enclosure. Drill the lower holes and install three fasteners. Place the enclosure's upper keyholes over the two upper screws. Install the two lower screws and make sure to tighten all screws (*Enclosure Dimensions, pg. 2*). Secure enclosure to earth ground.
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 (115VAC / 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 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 the 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 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.

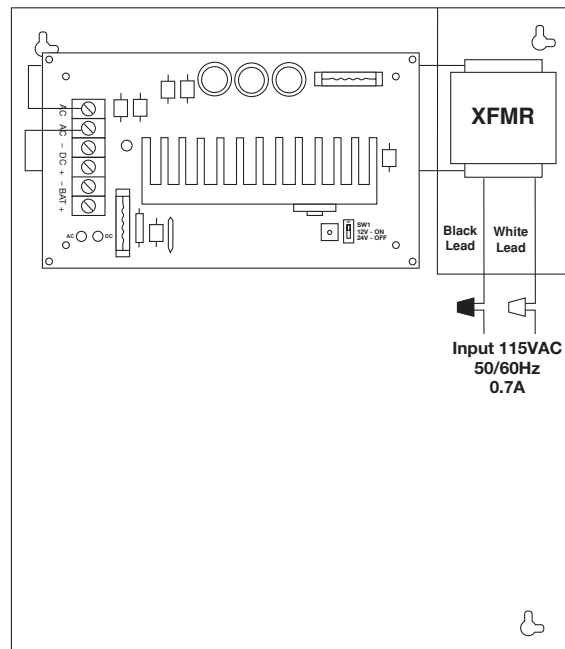


Fig. 1

LED Diagnostics:

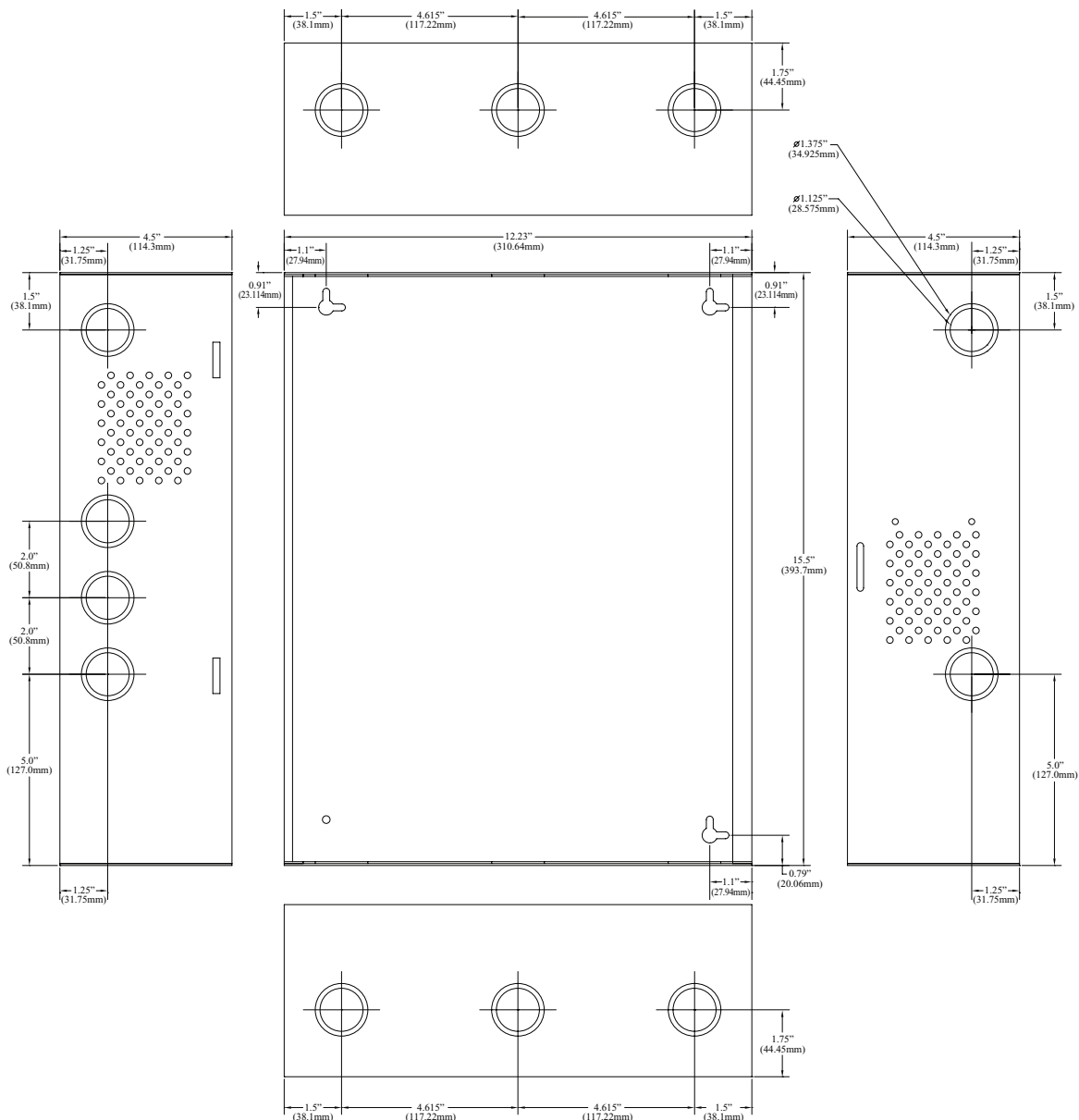
Red (DC)	Green (AC)	Power Supply Status
ON	ON	Normal operating condition.
ON	OFF	Loss of AC. Stand-by battery supplying power.
OFF	ON	No DC output
OFF	OFF	Loss of AC. Discharged or missing stand-by battery. No DC output.

Terminal Identification:

Terminal Legend	Function/Description
AC/AC	Low voltage AC input.
- BAT +	Stand-by battery connections.
- DC +	24VDC @ 2.5A continuous supply current.

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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