LPS3C12X
Linear Power Supply/Charger

Overview:

LPS3C12X 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, 12VDC output.

Specifications:

Input:

- Input 115VAC 50/60Hz, 0.5A.

Output:

- 12VDC output.
- 2.5A continuous supply current.
- Filtered and electronically regulated output.
- Thermal and short circuit protection with auto reset.

Battery Backup:

- Automatic switch over 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)

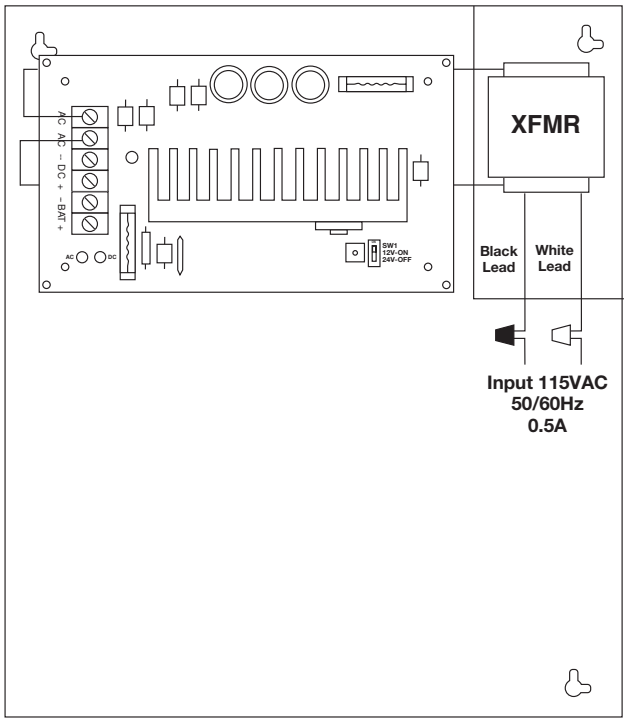


Fig. 1

Power Supply Voltage Output Specifications:

Output VDC	Maximum Load DC
12VDC	2.5A

Installation Instructions:

The LPS3C12X should be installed in accordance with The National Electrical Code and all applicable Local Regulations.

1. Mount LPS3C12X 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 (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 *(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.

LED Diagnostics:

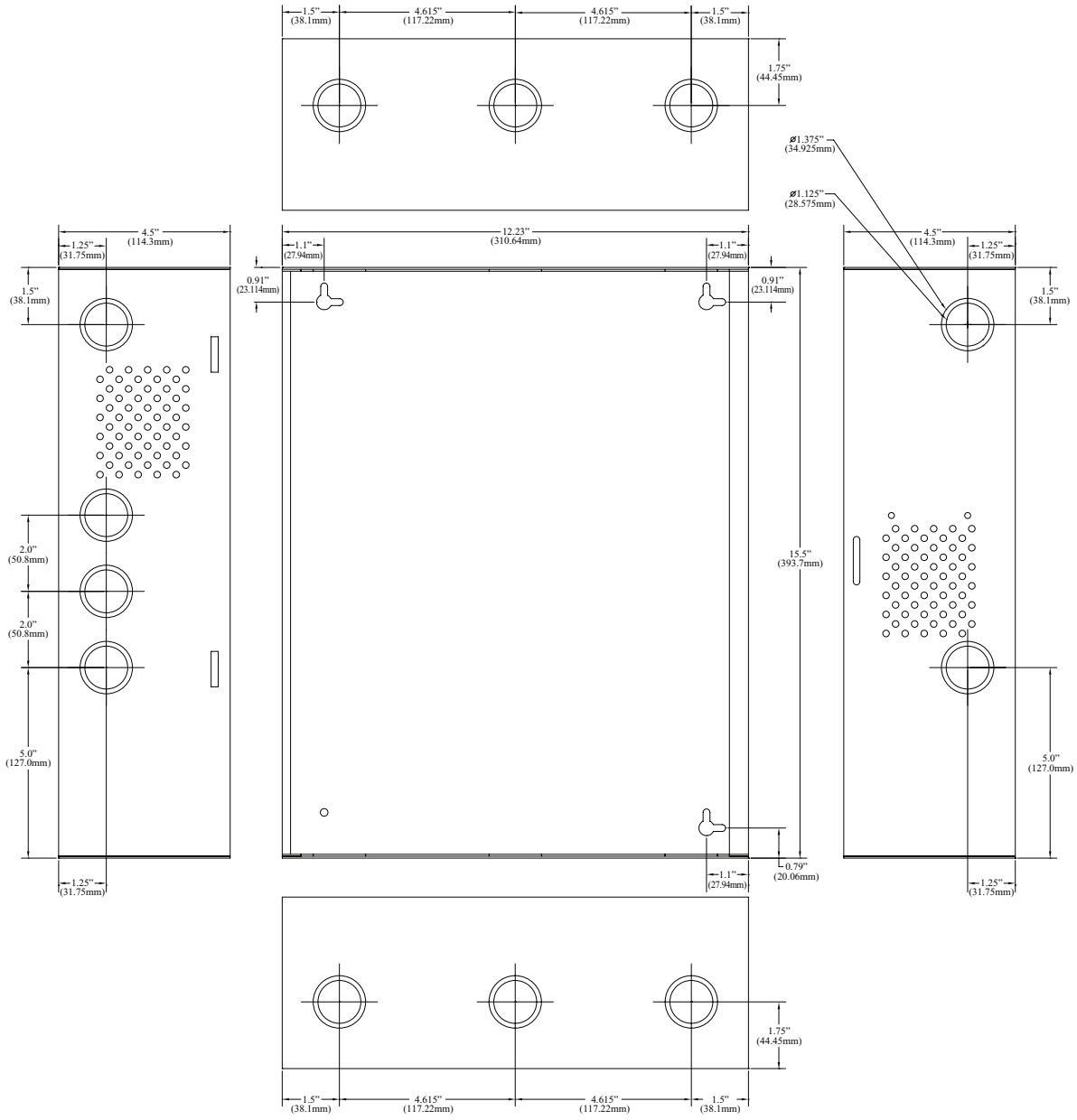
Red (DC)	Green (AC)	Power Supply Status
ON	ON	Normal operating condition.
ON	OFF	Loss of AC. Stand-by battery supplying power.
OFF	ON	No DC output.
OFF	OFF	Loss of AC. Discharged or missing stand-by battery. No DC output.

Terminal Identification:

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

Enclosure Dimensions (H x W x D approximate):

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



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