AL624ET
Linear Power Supply/Charger

Installation Guide

Overview:

Altronix AL624ET Linear Power Supply / Charger converts a 115VAC 60Hz input to a low voltage DC output. This general purpose power supply has a wide range of applications for access control, security and CCTV system accessories that require additional power.

Specifications:

Agency Listing:
- CE European Conformity.

Input:
- 115VAC, 60 Hz 1.2A.

Output:
- 12VDC @ 1.2A 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 300mA.
- Automatic switchover to stand-by battery when AC Fails.
- PTC battery protection.

Visual Indicators:
- AC input and DC output LED indicators.

Features:
- Power supply/charger with enclosure and TP1620 plug-in transformer (16.5VAC/20VA).
- Fits one (1) 12VDC/7AH or two (2) 12VDC/4AH batteries.

Mechanical:
- Enclosure Dimensions (H x W x D approx.): 8.5" x 7.5" x 3.5" (215.9mm x 190.5mm x 88.9mm)
- Board dimensions (W x L x H): 3" x 2.5" x 1.125" (76.2mm x 63.5mm x 28.6mm)

Voltage Output/Transformer Selection Table:

Output	Voltage Selector (JMPR)	Transformer
12VDC @ 1.2A continuous supply current	Leave J1 and J2 Intact	16.5VAC / 20VA (Altronix model TP1620)

Installation Instructions:

1. Mount AL624 board in the enclosure (*Fig. 1, pg. 2*).
2. **Unit is factory set for 12VDC.**
3. Connect TP1620 plug-in transformer to the terminals marked [AC] (refer to voltage output/transformer selection table). Use 18 AWG or larger for all power connections (Battery, DC output).
   Keep power-limited wiring separate from non power-limited wiring (115VAC / 60Hz Input, Battery Wires). Minimum 0.25" spacing must be provided.
4. Measure output voltage before connecting devices. This helps avoiding potential damage.
5. Devices to be powered should be connected to the terminals marked [+ DC] and [DC – BAT], carefully observing polarity.
6. Connect battery to the terminals marked [BAT +] and [DC – NEG] (battery leads included)
   Note: When batteries are not used, a loss of AC will result in a loss of output voltage.

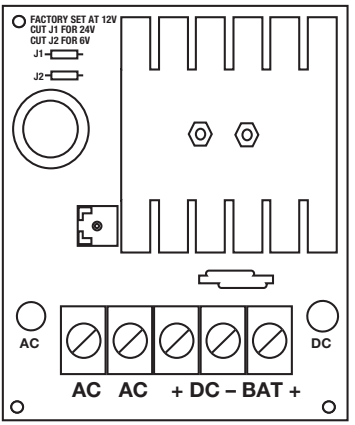
LED Diagnostics:

Red (DC)	Green (AC)	Power Supply Status
ON	ON	Normal operating conditions
ON	OFF	Loss of AC. Stand-by battery is supplying power.
OFF	ON	No DC output. Short circuit or thermal overload condition.
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 *(Voltage Output/Transformer Selection Table, pg.1)*.
+ DC –	6VDC or 12VDC @ 1.2A continuous supply current.
– BAT +	Stand-by battery connections. Maximum charge rate 300mA.

Fig. 1



STEP 1: Use these holes to mount AL624 by pushing the nylon circuit board fasteners (*Fig. 1a*) through the back of the enclosure. Nylon fasteners will snap into place.

STEP 2: Mount AL624 circuit board to nylon fasteners by pressing down circuit board onto nylon fasteners.

Note: Springlock on fasteners is used to remove AL624 circuit board.

Note: Four (4) fasteners are provided in the AL624 carton.

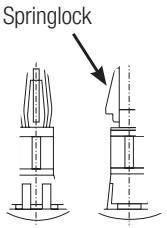


Fig. 1a
Nylon Fastener

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