AL624E
Linear Power Supply/Charger

Installation Guide

Overview:

Altronix AL624E Linear Power Supply/Charger converts a low voltage AC 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:
- Input 16VAC to 24VAC, 20VA to 40VA *(Voltage Output/Transformer Selection Table)*

Output:
- Switch selectable 6VDC-12VDC-24VDC.
- 1.2A continuous supply current at 6VDC-12VDC.
- 750mA continuous supply current at 24VDC.
- Filtered and electronically regulated output.

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.

Additional Features:
- Thermal and short circuit protection with auto reset.
- AC input and DC output LED indicators.
- Extremely compact design.
- Includes battery leads and enclosure.

Enclosure Dimensions (H x W x D)**:**
8.5" x 7.5" x 3.5" (215.9mm x 190.5mm x 88.9mm).

Voltage Output/Transformer Selection Table:

Output (continuous supply current)	**Voltage Selector (JMPR)**	**Transformer**
6VDC @1.2A	Cut Jumper J2 Only	12VAC / 20 VA (Altronix model TP1220)
12VDC @ 1.2A	Leave J1 & J2 Intact	16.5VAC / 20 VA (Altronix model TP1620)
24VDC @ 750mA	Cut Jumper J1 Only	24VAC / 40 VA (Altronix model TP2440)

Installation Instructions:

1. Mount AL624 into enclosure *(Fig. 1, pg. 2)*.
2. Mount AL624E in desired location.
3. **Unit is factory set for 12VDC.** For 6VDC output cut jumper J2, for 24VDC output cut Jumper J1.
4. Connect proper transformer to terminals marked [AC] *(Voltage Output/Transformer Selection Table).* Use 18 AWG or larger for all power connections (Battery, DC output).
5. Measure output voltage before connecting devices. This helps avoiding potential damage.
6. Connect devices to be powered to the terminals marked [+ DC] and [DC – BAT] carefully observing polarity.
7. 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

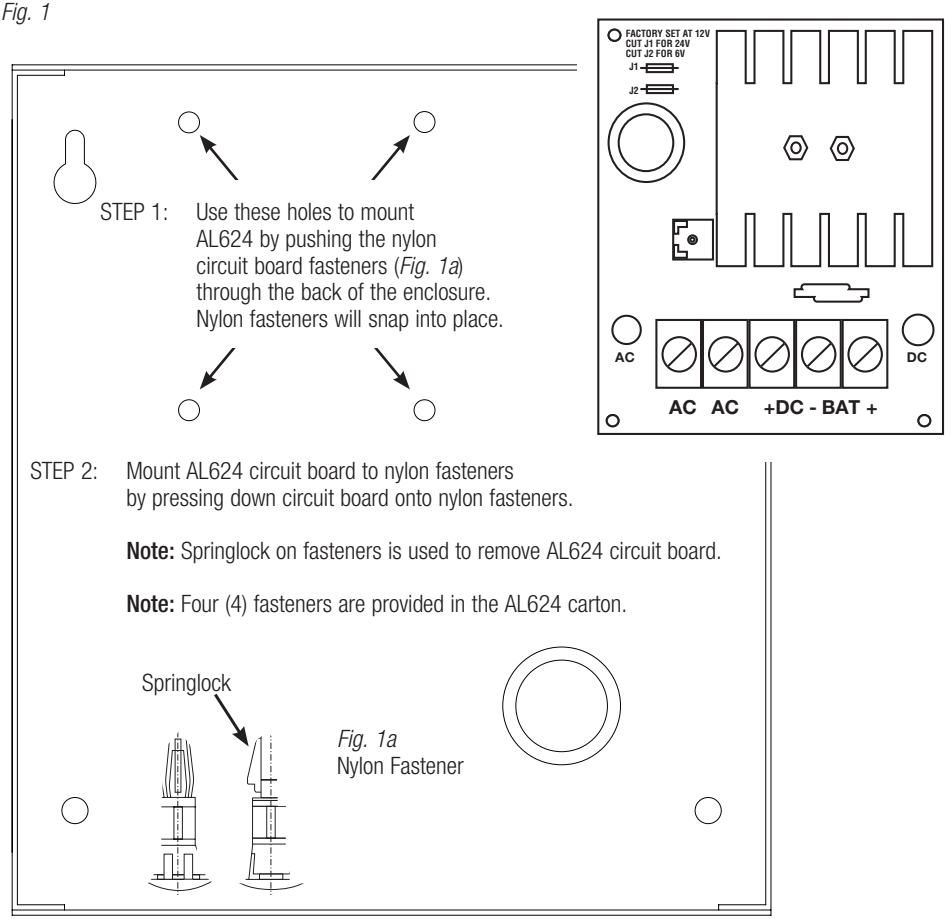

Fig. 1a
Nylon Fastener