



# AL624TE220

## Linear Power Supply/Charger

### Installation Guide

#### Overview:

Altronix AL624TE220 linear power supply/charger converts 220VAC input into 12VDC @ 1.2A of continuous supply current (see specifications). This general purpose power supply has a wide range of applications for access control, security, and CCTV system accessories that require additional power.

#### Specifications:

##### Input:

- 220VAC (working range 198VAC - 256VAC), 50/60Hz, 0.25A.

##### Output:

- 12VDC @ 1.2A supply current.
- Filtered and electronically regulated output.
- Short circuit and thermal overload protection.

##### Features:

- Power supply/charger with enclosure and T1656220 transformer (16.5VAC/56VA).
- Extremely compact design.
- Includes battery leads.

##### Battery Backup:

- Built-in charger for sealed lead acid or gel type batteries.
- Automatic switch over to stand-by battery when AC fails.
- Maximum charge current 0.3A.
- PTC battery protection.

##### Visual Indicators:

- AC input and DC output LED indicators.

##### Enclosure Dimensions (H x W x D approx.):

8.5" x 7.5" x 3.5" (215.9mm x 190.5mm x 88.9mm).

#### Installation Instructions:

1. Mount AL624 into power supply enclosure with nylon fasteners (*Fig. 1 - 3, pg. 2*) (four (4) supplied).
2. Mount power supply unit enclosure in the desired location.
3. Connect blue and yellow leads from transformer secondary to the terminals marked [AC].
4. Connect 220VAC power to the black and white flying leads of the transformer.
5. Unit is factory set for 12VDC output.
6. Measure output voltage before connecting devices. This helps avoiding potential damage.
7. Connect devices to be powered to the terminals marked [+ DC] and [DC – BAT], carefully observing polarity.
8. Connect battery to the terminals marked [BAT +] and [DC – BAT] (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 (T1656220).
+ DC –	12VDC @ 1.2A continuous supply current.
– BAT +	Stand-by battery connections. Maximum charge rate 300mA.

Fig. 1 - AL624

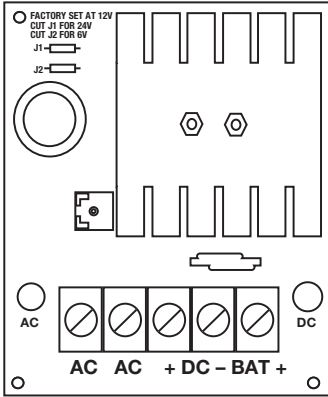


Fig. 2 - Enclosure

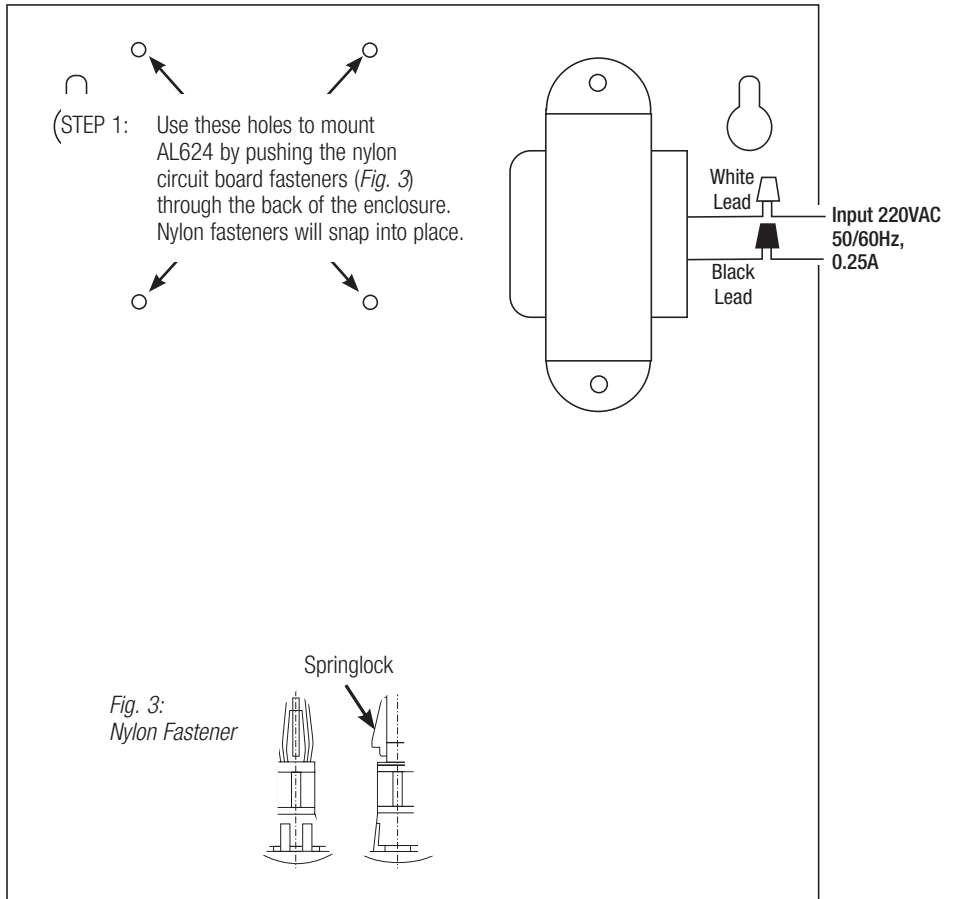
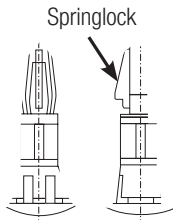


Fig. 3: Nylon Fastener



Altronix is not responsible for any typographical errors.

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