AL624
Power Supply/Charger

Overview:

Altronix AL624 power supply/charger converts low voltage AC input into 6VDC or 12VDC @ 1.2A or 24VDC @ 750mA 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:
- 16VAC to 24VAC, 20VA to 40VA (Transformer Selection Table).

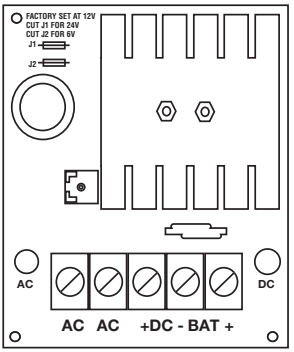
Output:
- Switch selectable 6VDC-12VDC-24VDC.
- 6VDC or 12VDC @ 1.2A or 24VDC @ 0.75A supply current.
- Filtered and electronically regulated output.
- Short circuit and thermal overload protection.

Battery Backup:
- Built-in charger for sealed lead acid or gel type batteries.
- 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.

Features:
- Extremely compact design.
- Battery leads included.
- Snap Trac compatible (order Altronix model #ST3).
- DIN Rail mount version available (order Altronix model #DPS1).

Board Dimensions (L x W x H approx.)**:**
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	Leave J1 and J2 Intact	16.5VAC / 20VA (Altronix model TP1620)
24VDC @ 750mA	Cut Jumper J1 Only	24VAC / 40VA (Altronix model TP2440)
6VDC @ 1.2A	Cut Jumper J2 Only	12VAC / 20VA (Altronix model TP1220)

Installation Instructions:

1. Mount AL624 in the desired location/enclosure (mounting hardware included).
2. **Unit is factory set for 12VDC.** For 6VDC output cut jumper J2, for 24VDC output cut Jumper J1.
3. Connect proper 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).
4. Measure output voltage before connecting devices. This helps avoiding potential damage.
5. Connect devices to be powered 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: To avoid damage connect batteries as follows:
   - For 6VDC operation connect one (1) 6VDC battery.
   - For 12VDC operation connect one (1) 12VDC battery or two (2) 6VDC batteries wired in series.
   - For 24VDC operation connect two (2) 12VDC batteries wired in series.

   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 condition.
ON	OFF	Loss of AC. Stand-by battery 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 (refer to voltage output/transformer selection table).
+ DC –	6VDC-12VDC @ 1.2A continuous supply current or 24VDC @ 750mA continuous supply current.
– BAT +	Stand-by battery connections. Maximum charge rate 300mA.

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website: www.altronix.com | e-mail: info@altronix.com | Lifetime Warranty | Made in U.S.A.