



AL624 - Power Supply / Charger

Overview:

AL624 power supply/charger converts low voltage AC input into 6VDC or 12VDC @ 1.2 amps 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:

- Input 16VAC to 24VAC, 20VA to 40VA. (see transformer selection table)

Output:

- Switch selectable 6VDC-12VDC-24VDC.
- 1.2 amp 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.

Board dimensions: 3"L x 2.5"W x 1.5"H

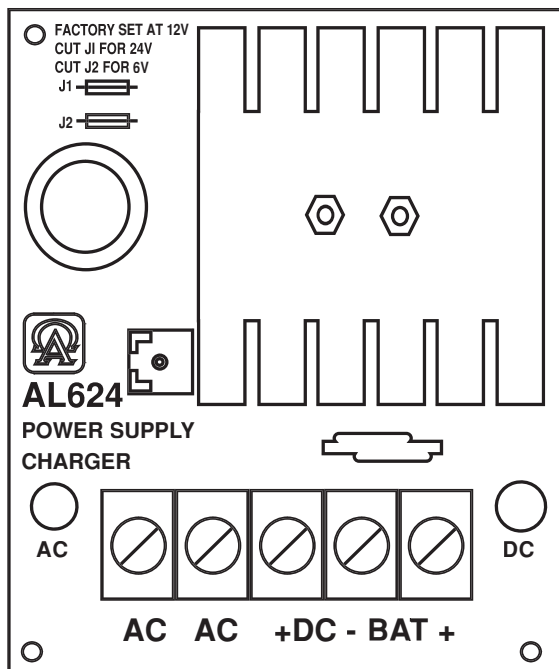
- Snap Trac compatible (order Altronix model #ST3).
- DIN Rail mount version available (order Altronix model #DPS1).

Voltage Output/Transformer Selection Table:

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

Installation Instructions:

1. Mount AL624 in desired location / enclosure.
2. **Unit is factory set for 12VDC.** For 6VDC output cut jumper J2, for 24VDC output cut Jumper J1.
3. Connect proper transformer to terminals marked [AC] (refer to Voltage Output/Transformer Selection Table).
Use 18 AWG or larger for all power connections (Battery, DC output).
4. Devices to be powered should be connected to terminals marked [+ DC] and [DC - BAT] carefully observing polarity.
Note: It is important to measure output voltage before connecting devices. This helps avoid potential damage.
5. Connect battery to terminals marked [BAT +] and [DC - NEG] (battery leads included)
Use two (2) 12VDC batteries connected in series for 24VDC operation.
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 @ 1.2 amp continuous supply current. 24VDC @ 750mA continuous supply currentt. |
| + BAT - | Stand-by battery connections. Maximum charge rate 300mA. |

Altronix is not responsible for any typographical errors. Product specifications are subject to change without notice.

