



DPS1 Power Supply/Charger

Overview:

DPS1 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:

- 6VDC or 12VDC output - use TP1640;
- 24VDC output - use T2428100.

Output:

- 6VDC, 12VDC or 24VDC selectable output.
- 1.2A continuous supply current at 6VDC-12VDC.
750mA continuous supply current at 24VDC.
- 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.

Battery Backup (cont'd):

- Maximum charge current 0.3A.
- Battery short circuit protection (circuit breaker).

Visual Indicators:

- AC input and DC output LED indicators.

Features:

- Extremely compact design.
- Includes Snap Track ST3 and clips.
- Includes battery leads.

Board Dimensions (L x W x H approx.):

3" x 2.5" x 1.5" (76.2mm x 63.5mm x 38.1mm).

Voltage Output/Transformer Selection Table:

Output	Voltage Selector (JMPR)	Transformer
12VDC @ 1.2A continuous supply current	Leave J1 and 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 @ 1.2A continuous supply current	Cut Jumper J2 Only	12VAC / 20 VA (Altronix model TP1220)

Installation Instructions:

1. Mount the DPS1 using included ST3 snap track and clips:
 - Slide the board into the outermost slots on the ST3 (Fig. 2, pg. 2);
 - Attach the clips to the back of ST3 using provided guides and slots;
 - Mount the DPS1 onto the DIN rail using the clips (Fig. 2, pg. 2).
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).
Keep power-limited wiring separate from non power-limited wiring (AC 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 terminals marked [+ DC] and [DC - BAT], carefully observing polarity (Fig. 1, pg. 2).
6. Connect battery to terminals marked [BAT +] and [DC - NEG] (battery leads included) (Fig. 1, pg. 2). 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.

Fig. 1 - **DPS1**

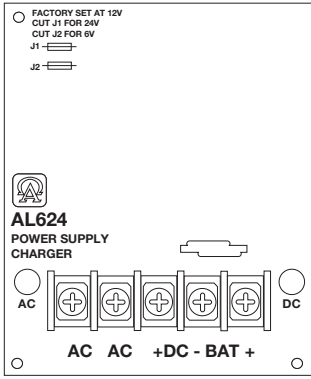
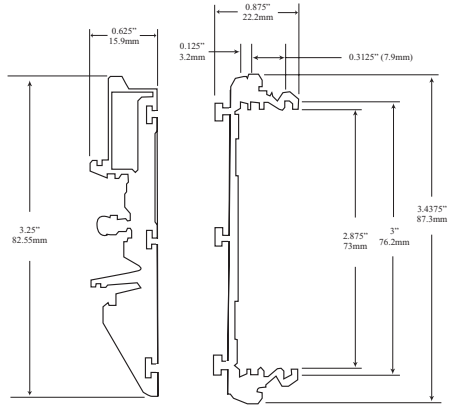


Fig. 2 - **ST3**



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 (<i>refer to Voltage Output/Transformer Selection Table</i>).
- DC +	6VDC-12VDC @ 1.2A continuous supply current. 24VDC @ 750mA continuous supply current.
+ BAT -	Stand-by battery connections. Maximum charge rate 300mA.