



# DPS1 Power Supply/Charger

## Installation Guide

### 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.

#### Visual Indicators:

- AC input and DC output LED indicators.

#### 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.
- Battery short circuit protection (circuit breaker).

#### 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

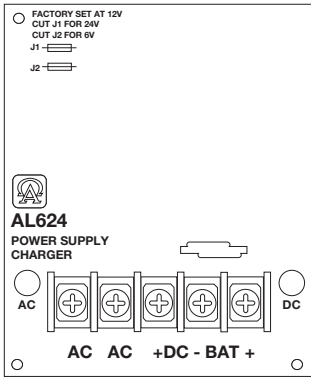
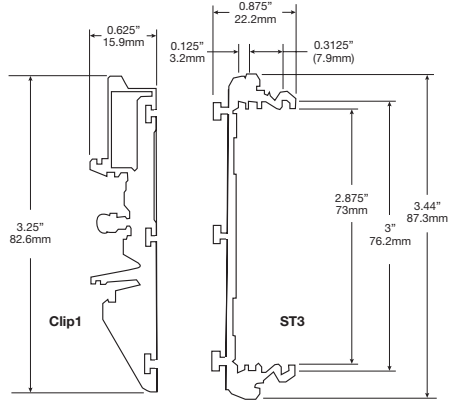


Fig. 2 - ST3



### LED Diagnostics:

Red (DC)	Green (AC)	Power Supply Status
ON	ON	Normal operating condition.
ON	OFF	Loss of AC. Stand-by battery 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 ( <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.

Altronix is not responsible for any typographical errors.

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IIDPS1 - Rev. 091802

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