SMP7 - Power Supply/Charger

Overview:

SMP7 power supply/charger converts low voltage AC input into 12VDC or 24VDC @ 6 amp of continuous supply current (refer to 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:

- 28VAC/175VA.

Output:

- 12VDC or 24VDC selectable output.
- 6 amp continuous supply current.
- Filtered and electronically regulated output.
- Thermal overload and short circuit protection.

Battery Backup:

- Built-in charger for sealed lead acid or gel type batteries.
- Maximum charge current 600mA.
- Automatic switch over to stand-by battery when AC fails.

Additional Features:

- AC input and DC output LED indicators.
- Includes battery leads.

Board Dimensions (approximate): 7”L x 4.25”W x 1.75”H

* Specified at 25˚ C ambient.

Voltage Output/Transformer Selection Table:

Output VDC	Switch Position	Max. Load DC	Transformer Requirements (Recommended Altronix Part #’s)
12VDC	SW 1 Closed	6 amp	24VAC or 28VAC / 175VA (T2428175)
24VDC	SW1 Open	6 amp	24VAC or 28VAC / 175VA (T2428175)

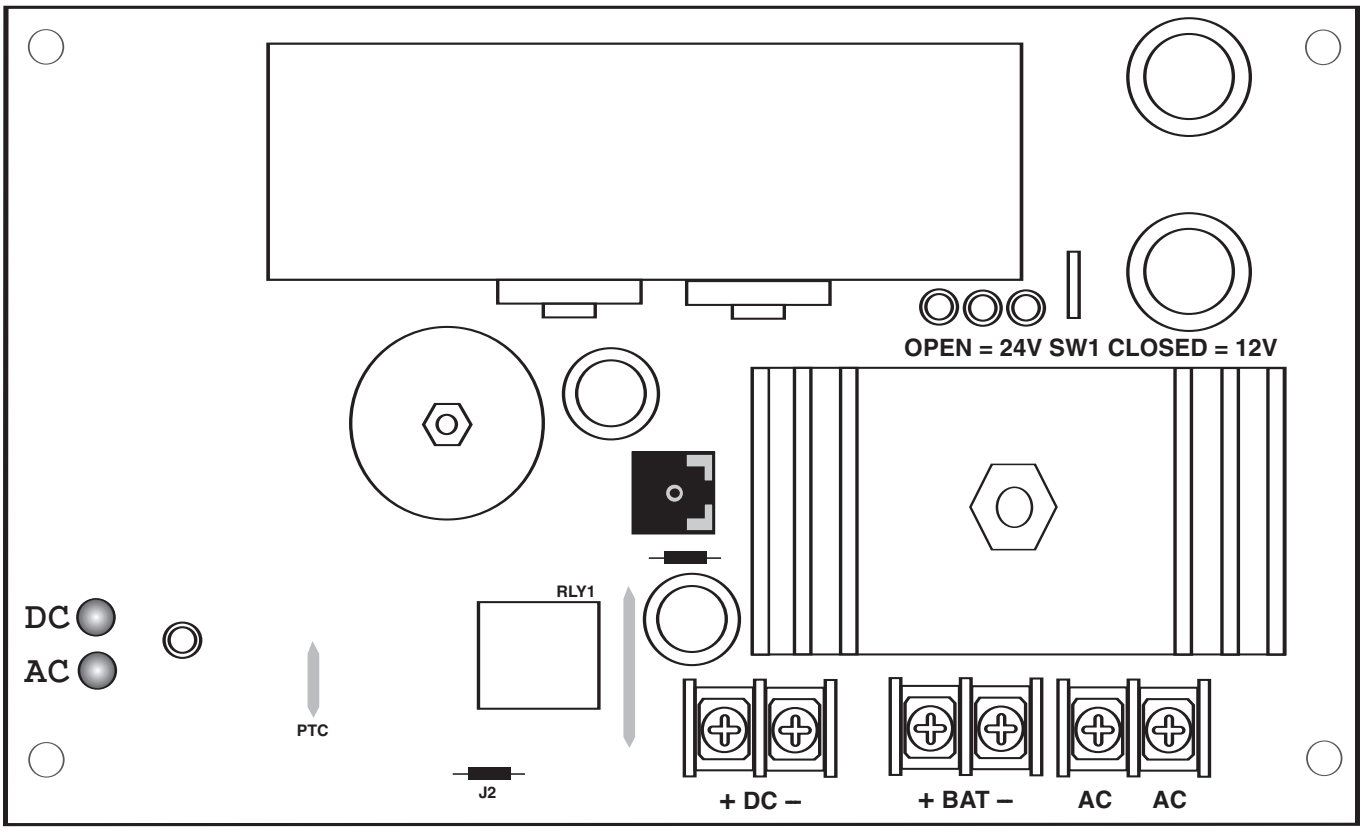
Installation Instructions:

The SMP7 should be installed in accordance with The National Electrical Code and all applicable Local Regulations.

1. Mount the SMP7 in desired location/enclosure.
2. Set the SMP7 to the desired DC output voltage by setting the switches to the appropriate positions (*refer to Voltage Output/Transformer Selection Table*).
3. Connect proper transformer to terminals marked [AC] (*refer 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 avoid potential damage.
5. Connect devices to be powered to terminals marked [+ DC -].
6. When the use of stand-by batteries are desired, they must be lead acid or gel type. Connect battery to terminals marked [+ BAT -]. (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 the 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	Loss of AC. Discharged or no stand-by battery. No DC output.



Terminal Identification:

Terminal Legend	Function/Description
AC/AC	Low voltage AC input (28VAC / 175VA). Altronix model # T2428175
+ DC –	12VDC or 24VDC @ 6 amp continuous supply current.
+ BAT –	Stand-by battery connections. Maximum charge rate 600mA.

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