



# SMP10 - Power Supply/Charger

## Overview:

SMP10 power supply/charger converts low voltage AC input into 12VDC or 24VDC @ 10 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 (refer to Voltage Output/Transformer Selection Table).

## Specifications:

### Input:

- Input 28VAC, 175/300VA (refer to transformer selection table).

### Output:

- 12VDC or 24VDC switch selectable.
- 10 amp continuous supply current at 12VDC-24VDC\*.
- Filtered and electronically regulated output.

### Battery Backup:

- Built-in charger for sealed lead acid or gel type batteries.
- Maximum charge current 700mA.
- Battery is fuse protected.
- Automatic switch over to stand-by battery (zero voltage drop).

### Additional Features:

- Thermal overload and short circuit protection.
- AC input and DC output LED indicators.
- Includes battery leads.

Board Dimensions (approximate): 7" L x 4.25" W x 2.3" H

\* Specified at 25° C ambient.

## Voltage Output/Transformer Selection Table:

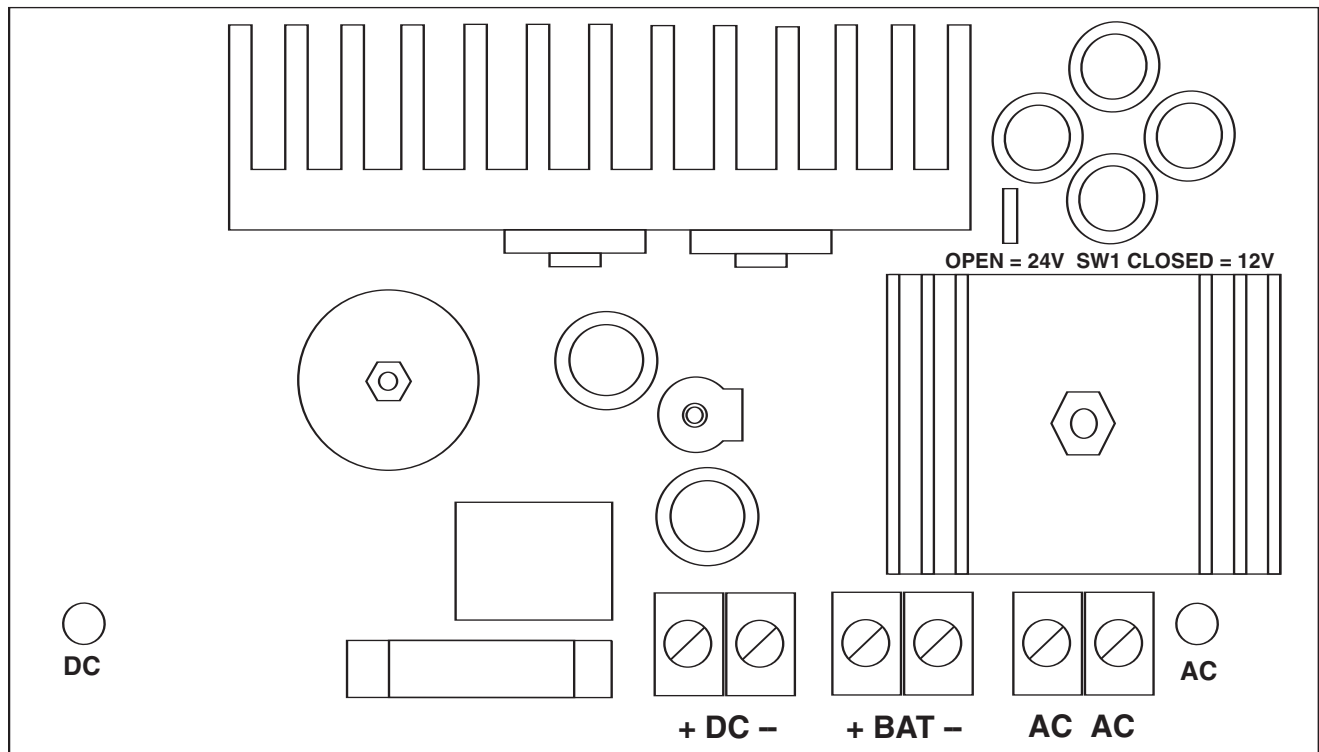
Voltage	Switch Position	Transformer
12VDC @ 10 amp continuous supply current	Closed	24VAC or 28VAC / 175VA (Altronix model T2428175)
24VDC @ 6 amp continuous supply current	Open	24VAC or 28VAC / 175VA (Altronix model T2428175)
24VDC @ 10 amp continuous supply current	Open	24VAC or 28VAC / 300VA (Altronix model T2428300)

## Installation Instructions:

The SMP10 should be installed in accordance with The National Electrical Code and all applicable Local Regulations.

1. Mount the SMP10 in desired location/enclosure.
2. 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).
3. Set the SMP10 to the desired DC output voltage setting the switches to the appropriate positions (refer to Voltage Output/Transformer Selection Table).
4. Measure output voltage before connecting devices. This helps avoid potential damage.
5. Connect devices to be powered to terminals marked [+ DC -] (Fig. 1).
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.
7. When batteries are not used a loss of AC will result in the loss of output voltage.

Fig. 1



**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 ( <i>refer to Voltage Output/Transformer Selection Table</i> ). For 12VDC output use 28VAC with 175VA power rating or higher. For 24VDC output use 28VAC with 300VA power rating or higher. Caution: Do not apply voltages above 28VAC (28VAC is maximum input rating).
+ BAT -	Stand-by battery connections.
+ DC -	DC output voltage for devices to be powered.

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

