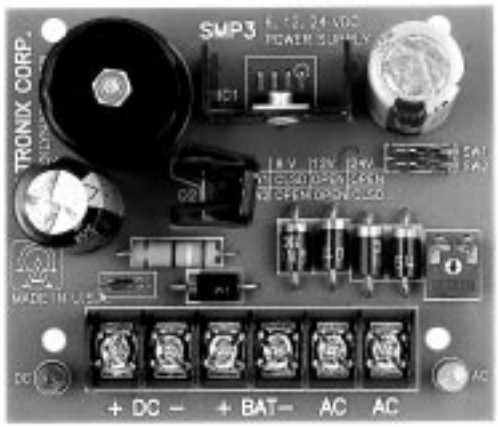
Altronix® SMP3 - Power Supply / Charger

Overview:

The SMP3 High Current Power Supply / Charger will convert a low voltage AC input to a low voltage DC output. This general purpose power supply has a wide range of applications for access control, security and CCTV system accessories that require additional power.

Specifications:



- Switch selectable 6-12-24VDC power limited output.
- 2.5 amps continuous supply current at 6-12-24VDC*.
- Filtered and electronically regulated output.
- Built-in charger for sealed lead acid or gel type batteries.
- Maximum charge current 350mA.
- Automatic switch over to stand-by battery.
- AC input and DC output LED indicators.
- Thermal overload and short circuit protection.
- Battery short circuit protection (circuit breaker).
- Efficient switch mode design.
- Snap Trac compatible (order Altronix model #ST3).
- DIN Rail Mount version avialable (order Altronix model #DPS3).
- Includes battery leads.
- Extremely compact design.

Board Dimensions: 3.5”L x 2.75”W x 1.75”H

* Specified at 25˚ C ambient.

Voltage Output / Transformer Selection Table:

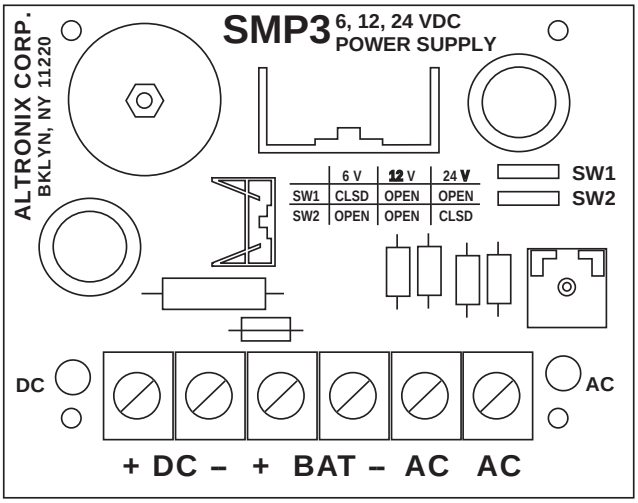
Output Voltage	Switch Position		Transformer Requirements (Recommended Altronix Part #’s)
	1	2	
6VDC	Closed	Open	16VAC / 40VA (TP1640)
12VDC	Open	Open	16VAC / 40 VA (TP1640, T24130 or T2885)
24VDC	Open	Closed	28VAC / 100 VA (T2885)

Note: Transformers with higher VA ratings may be used for all output voltages above as long as you do not exceed 28VAC or 45VDC.

Installation Instructions:

The SMP3 should be installed in accordance with The National Electrical Code and all applicable Local Regulations.

1. Mount the SMP3 in desired location / enclosure.
2. Set DC output voltage with switches (refer to voltage output/transformer selection table).
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 (115VAC / 60Hz Input, Battery Wires). Minimum .25” spacing must be provided.
4. Connect devices to be powered to terminals marked [+ DC –].
   Note: It is good operating practice to measure and verify output voltage before connecting devices to ensure proper operation of equipment.
5. 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	No DC output. Loss of AC. Discharged or no battery present.

Terminal Identification:

Terminal Legend	Function/Description
AC/ AC	Low voltage AC input (see voltage output/transformer selection table). For 6VDC output use 16VAC or higher with 24VA power rating or higher. For 12VDC output use 16VAC or higher with 40VA power rating or higher. For 24VDC output use 28VAC with 85VA power rating or higher. Caution: Do not apply voltages above 28 VAC (28 VAC is maximum input rating)
- DC +	6-12-24VDC @ 2.5 amps continuous power limited output.
+ BAT -	Stand-by battery connections. Maximum charge rate 350mA.

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