



SMP3E - High Current Power Supply / Charger

Overview:

The SMP3E Linear 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:

- 6, 12 or 24VDC power limited output.
- 2.5 amp continuous supply current.
- Filtered and electronically regulated output.
- Built-in charger for sealed lead acid or gel type batteries.
- Maximum charge current 300mA.
- Automatic switchover to stand-by battery when AC Fails.
- AC input and DC output LED indicators.
- Thermal and short circuit protection with auto reset.
- Fused battery protection (circuit breakers available).
- Includes battery leads.
- Extremely compact design.

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

Enclosure Dimensions: 8.5”H x 7.5” W x 3.5” D

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 / 40VA (TP1640), 24VAC or 28VAC / 100VA (T2428100)
24VDC	Open	Closed	24VAC or 28VAC / 100VA (T2428100)

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:

1. Mount SMP3E in desired location.
2. Connect proper transformer to terminals marked [XFMR] (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.

3. Devices to be powered should be connected to terminals marked [+ DC] and [DC - BAT] carefully observing polarity.

Note: It is good operating practice to measure and verify output voltage before connecting devices to ensure proper operation of equipment.

4. Connect battery to terminals marked [BAT +] and [DC - NEG] (battery leads included)

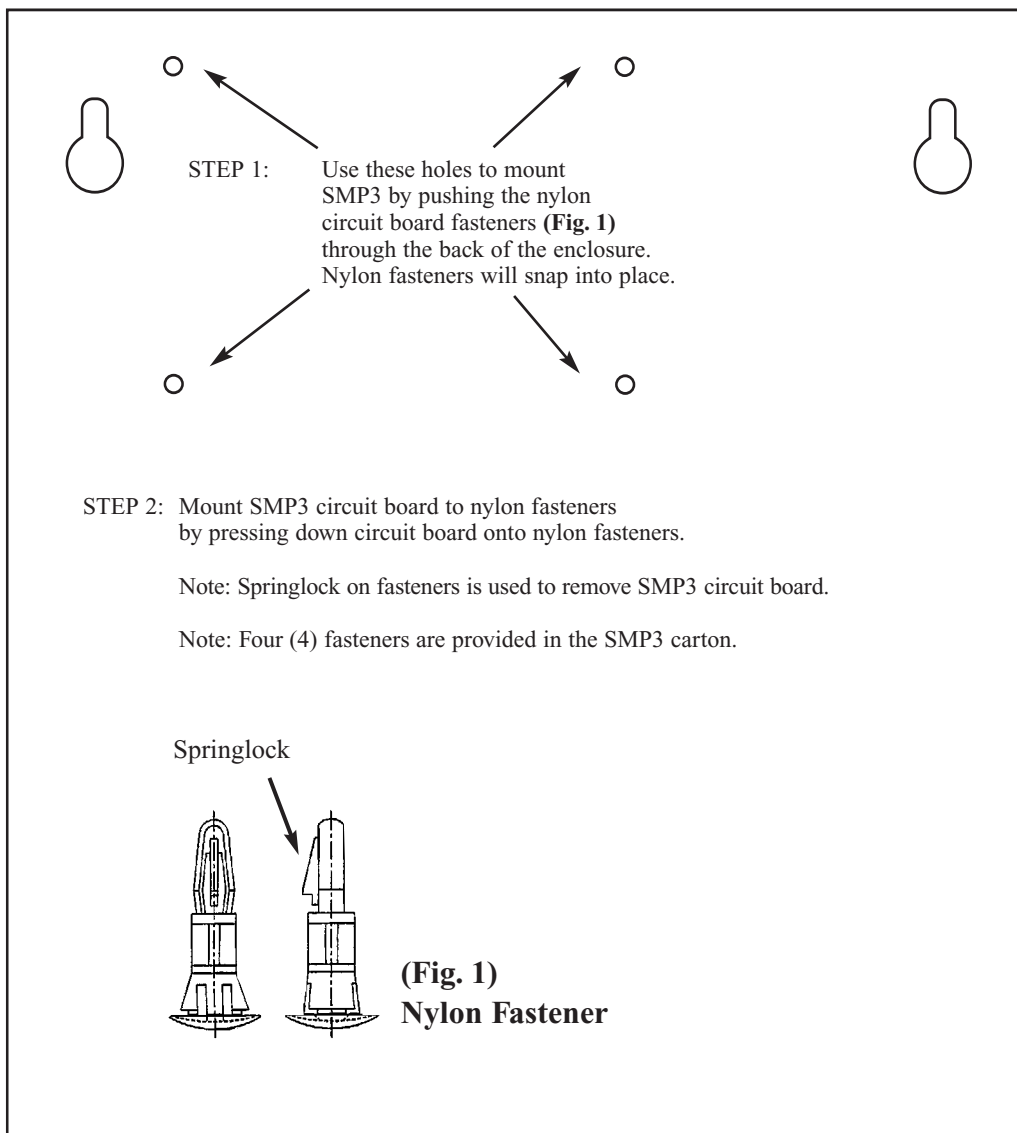
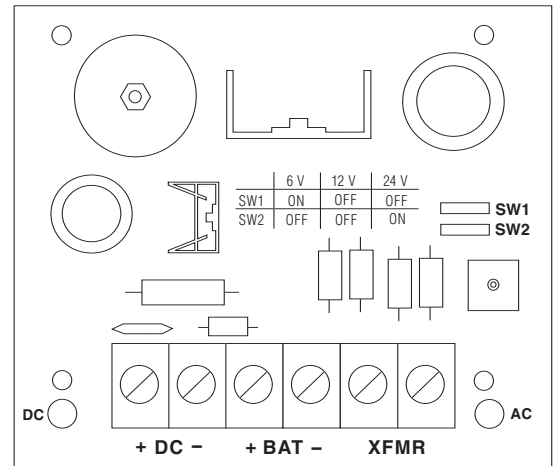
Note: When batteries are not used, a loss of AC will result in a loss of output voltage.

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
XFMR	Low voltage AC input (refer to voltage output/transformer selection table).
- DC +	6, 12 or 24VDC @ 2.5 amp continuous power limited output.
+ BAT -	Stand-by battery connections. Maximum charge rate 300mA.



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