



# SMP3ET High Current Power Supply/Charger

## Overview:

Altronix SMP3ET High Current Power Supply/Charger converts 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:

### Input:

- 16VAC from TP1640 plug-in transformer.

### Output:

- 6VDC or 12VDC selectable output.
- 2.5A continuous supply current.
- Filtered and electronically regulated output.
- Short circuit and thermal overload protection.

### 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).

### Visual Indicators:

- AC input and DC output LED indicators.

### Features:

- Includes battery leads.
- Power supply/charger with enclosure and TP1640 plug-in transformer (16.5VAC/40VA).
- Includes four (4) nylon fasteners.
- Fits one (1) 12VDC/7AH or two (2) 12VDC/4AH batteries.

### Mechanical:

- Enclosure Dimensions (H x W x D approx.):  
8.5" x 7.5" x 3.5" (215.9mm x 190.5mm x 88.9mm).
- Board Dimensions (W x L x H approx.):  
3" x 3.5" x 2" (76.2mm x 88.9mm x 50.8mm).

## Voltage Output Selection Table:

Output Voltage	Switch Position	
	1	2
6VDC	ON	OFF
12VDC	OFF	OFF

## Installation Instructions:

1. Mount SMP3 board (see back).
2. Mount unit in the desired location. Mark and predrill holes in the wall to line up with the top two keyholes in the enclosure. Install two upper fasteners and screws in the wall with the screw heads protruding. Place the enclosure's upper keyholes over the two upper screws; level and secure. Mark the position of the lower two holes. Remove the enclosure. Drill the lower holes and install the two fasteners. Place the enclosure's upper keyholes over the two upper screws. Install the two lower screws and make sure to tighten all screws. Secure enclosure to earth ground.
3. Set DC output voltage with switches (refer to *Voltage Output Selection Table*).
4. Connect the transformer (TP1640) to the terminals marked [AC].

**Keep power-limited wiring separate from non power-limited wiring (115VAC / 60Hz Input, Battery Wires).  
Minimum 0.25" spacing must be provided.**

**CAUTION: Do not touch exposed metal parts. Shut branch circuit power before installing or servicing equipment.  
There are no user serviceable parts inside. Refer installation and servicing to qualified service personnel.**

5. Measure output voltage before connecting devices. This helps avoiding potential damage.
  6. Devices to be powered should be connected to the terminals marked [+ DC -], carefully observing polarity.
  7. Connect battery to the terminals marked [+ BAT -] (battery leads included)
- Note: When batteries are not used, a loss of AC will result in a loss of output voltage.

## LED Diagnostics:

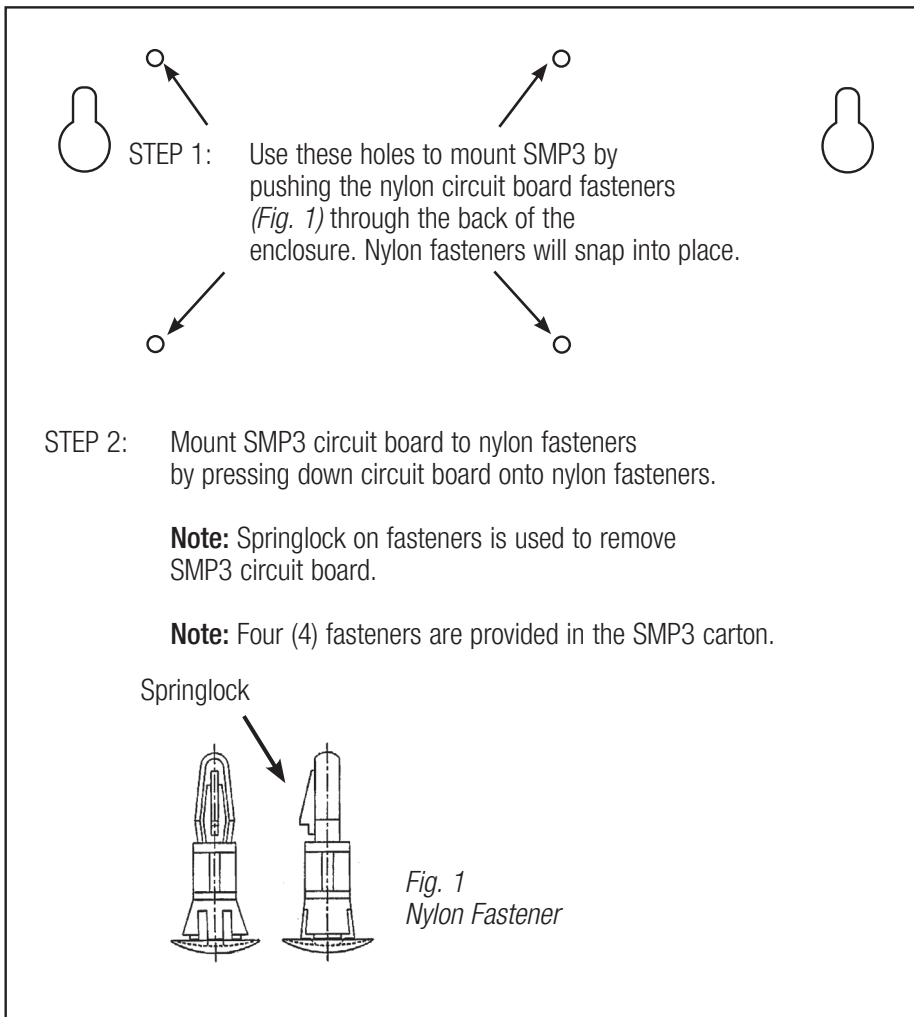
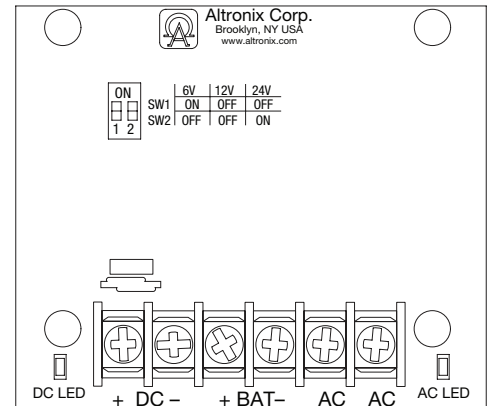
Red (DC)	Green (AC)	Power Supply Status
ON	ON	Normal operating condition.
ON	OFF	Loss of AC. Stand-by battery supplying power.
OFF	ON	No DC output. Short circuit or thermal overload condition.
OFF	OFF	No DC output. Loss of AC. Discharged or no battery present.

## Terminal Identification:

Terminal Legend	Function/Description
AC/AC	Low voltage AC input (TP1640).
+ DC -	6VDC or 12VDC @ 2.5A continuous output.
+ BAT -	Stand-by battery connections. Maximum charge rate 300mA.

### Enclosure Dimensions(H x W x D approximate):

8.5" x 7.5" x 3.5" (215.9mm x 190.5mm x 88.9mm)



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

140 58th Street, Brooklyn, New York 11220 USA | phone: 718-567-8181 | fax: 718-567-9056  
 website: www.altronix.com | e-mail: info@altronix.com | Lifetime Warranty  
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