Altronix® SMP10 High Current Power Supply

Overview:

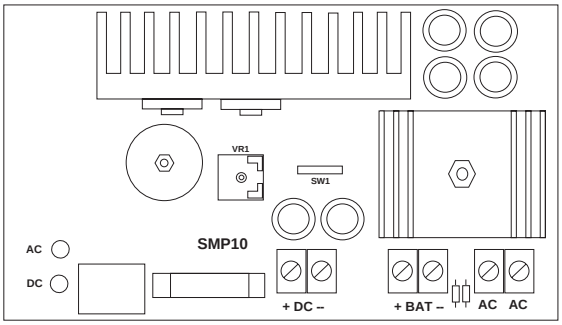
The Altronix SMP10 High Current Power Supply/Charger is specifically designed to provide the power needed by the most demanding security and access control applications. It will provide 10 AMPS continuous output power at 12 or 24 VDC (field selectable).

Specifications:

- Switch selectable 12-24VDC output.
- 10 amps continuous supply current at 12-24VDC*.
- Filtered and electronically regulated output.
- Maximum charge current 700mA.
- Built-in charger for sealed lead acid or gel type batteries.
- Automatic switch over to stand-by battery. (zero voltage drop)
- AC input and DC output LED indicators.
- Thermal overload and short circuit protection.
- Battery is fuse protected.
- Efficient switch mode design.
- Includes battery leads.

Board dimensions: 7” L x 4.25” W x 2.3” H

* Specified at 25˚ C ambient.



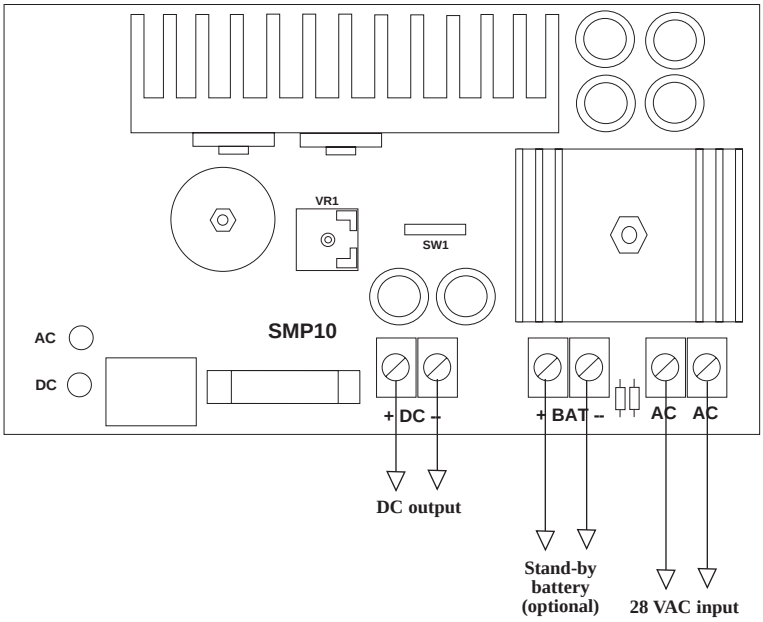
Note: SMP10 units are available completely assembled in an enclosure (15.5”H x 12”W x 4.5”D) with transformer and cam lock as the following model numbers: SMP-10C12X for 12 VDC output, SMP-10C24X for 24VDC output.

Voltage Output / Transformer Selection Table:

Voltage	Switch Position	Transformer
12VDC @ 10 amps continuous supply current	Closed	28VAC / 175 VA (Altronix model T28140).
24VDC @ 6 amps continuous supply current	Open	28VAC / 175 VA (Altronix model T28140).
24VDC @ 10 amps continuous supply current	Open	28VAC / 300 VA (Altronix model T28300).

Installation Instructions:

1. Mount the SMP10 in desired location/enclosure.
2. Connect proper transformer to terminals marked [AC, AC]. (see 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. Set the SMP10 to the desired DC output voltage setting the switches to the appropriate positions (see voltage output/transformer selection table).
4. Connect devices to be powered to terminals marked [+ DC -] *(Fig. 1)*. **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 [+ BAT -] as marked on the unit (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
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 (see voltage output/transformer selection table). For 12VDC output use 18VAC or higher with 175 VA power rating or higher. For 24VDC output use 28VAC with 175VA 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. Dual negative (-) and positive (+) terminals for hook-up convenience

Altronix Corp.
140 58th Street, Brooklyn, New York 11220 USA, 718-567-8181, fax: 718-567-9056
web site: www.altronix.com, e-mail: info@altronix.com, Lifetime Warranty, Made in U.S.A.