



SMP10PMC24X High Current Power Supply/Charger

Overview:

The SMP10PMC24X is a high current power supply/charger that will convert a 115 VAC input, into a 24VDC output, with 10 amps of continuous supply current (see specifications).

Specifications:

- 24VDC output
- 10 amps total continuous supply current (includes battery charging)
- Input 115VAC / 60Hz, 2.95 amps
- Filtered and electronically regulated output
- Built-in charger for sealed lead acid or gel type batteries
- Maximum charge current 700mA
- Zero voltage drop when switching over to battery backup.
- AC input and DC output LED indicators
- AC fail supervision (form "C" contact, 1 amp 28VDC or 115VAC)
- Low battery and battery presence supervision (form "C" contact)
- Short circuit and thermal overload protection
- Includes battery leads

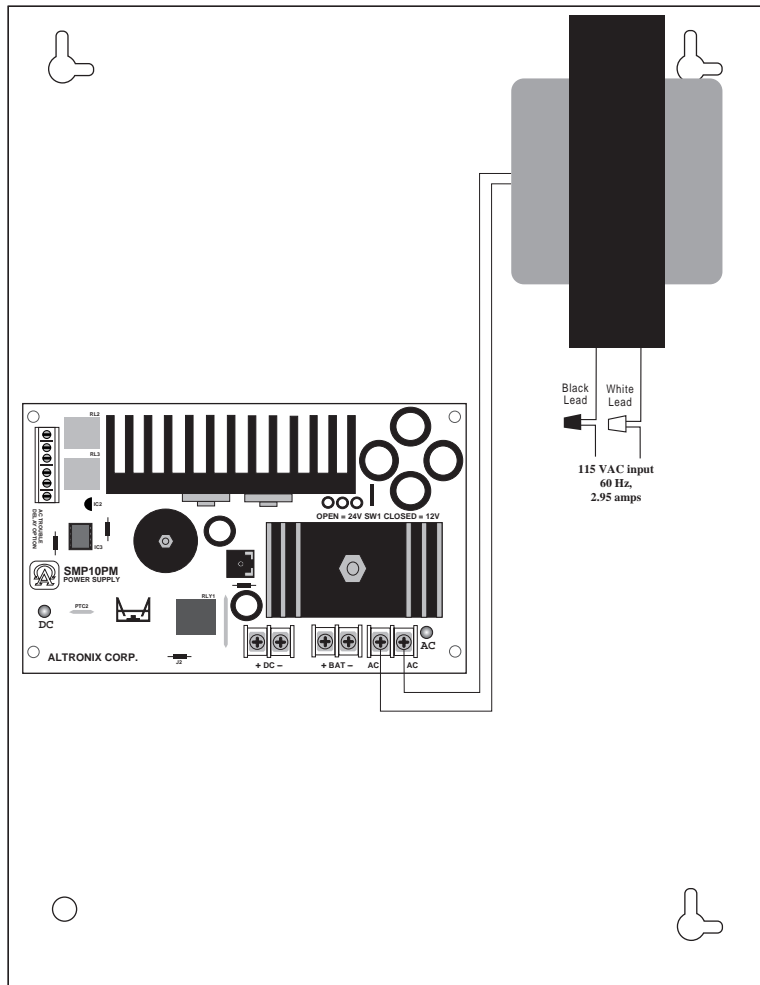
Enclosure Dimensions:
15.5"H x 12.5"W x 4.5"D
Specified at 25° C ambient.

Note: Use SMP-10PMC12X for 12VDC output.

Installation Instructions:

The SMP10PMC24X should be installed in accordance with The National Electrical Code and all applicable Local Regulations.

1. Mount the SMP10PMC24X in desired location.
2. Connect AC power to the black and white flying leads of the transformer.
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. 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.
4. 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.
5. Connect appropriate signaling notification devices to AC Fail & Low battery supervisory relay outputs marked NC, C, NO if desired.



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 Identification	Function/Description
AC/ AC	Low voltage AC input (see voltage output/transformer selection table). For 24VDC output use 28VAC with 336VA power rating or higher. Altronix part # T28300 Caution: Do not apply voltages above 28VAC (28VAC is maximum input rating).
+ DC -	DC output terminals
AC FAIL NC, C, NO	Used to indicate loss of AC power, (e.g. connect to audible device or alarm panel). AC report delay is approx. 1 min. Relay normally energized when AC power is present. Contact rating 1 amp @ 120VAC / 28VDC.
Low Battery NC, C, NO	Used to indicate low battery or battery presence condition, (e.g. connect to audible device or alarm panel). Battery presence delay is approx. 3 mins. Circuit will restore 5 secs. after battery is detected. Relay normally energized during proper battery operation. Contact rating 1 amp @ 120VAC / 28VDC. Low battery threshold: 24VDC output threshold set @ approximately 21VDC. Battery Presence: 24VDC battery presence threshold is approximately 4VDC. Battery presence is automatically tested about every 5 mins. If battery is determined absent, the unit will automatically test for presence about every 5 secs.
- BAT +	Stand-by battery connections. Maximum charge rate 700mA.

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

