



SMP10PMC12X High Current Power Supply/Charger

Overview:

The SMP10PMC12X is a high current power supply/charger that will convert a 115 VAC input, into a 12VDC output, with 10 amps of continuous supply current (see specifications).

Specifications:

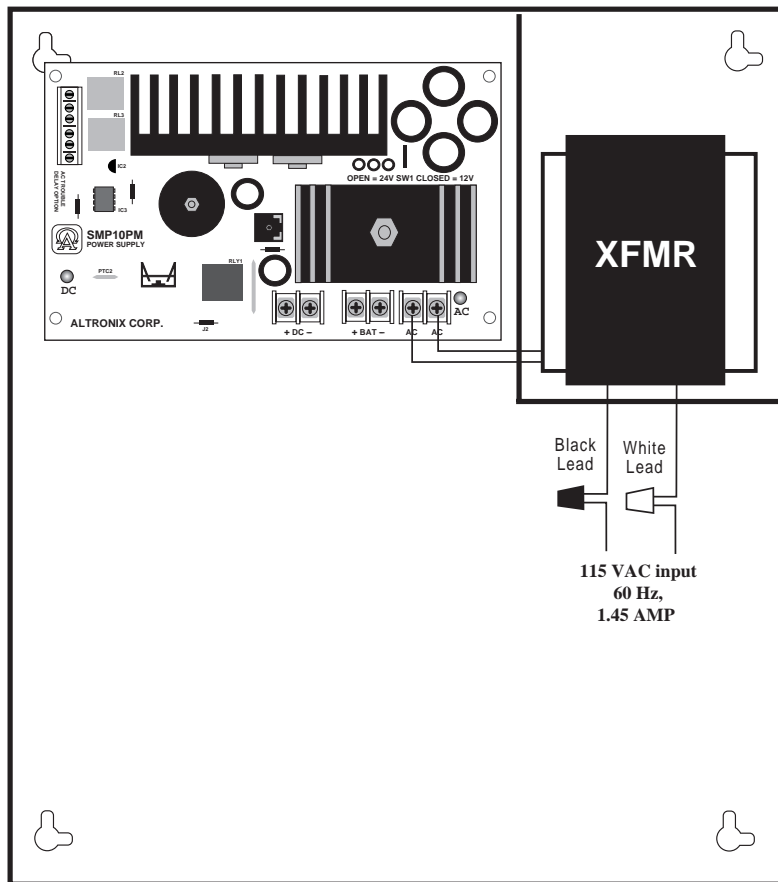
- 12VDC output
- 10 amps total continuous supply current (includes battery charging)
- Input 115VAC / 60Hz, 1.45 amps
- Filtered and electronically regulated outputs
- Built-in charger for sealed lead acid or gel type batteries
- Maximum charge current 700mA
- Zero voltage drop when switching over to 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"W x 4.5"D

Specified at 25° C ambient.

Note: Use SMP-10PMC24X for 24VDC output.



Installation Instructions:

The SMP10PMC12X should be installed in accordance with The National Electrical Code and all applicable Local Regulations.

1. Mount the SMP10PMC12X 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).
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 Legend	Function/Description
AC/ AC	Low voltage AC input (28VAC / 175VA). Altronix part # T28140
+ 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: 12VDC output threshold set @ approximately 10.5VDC, Battery Presence: 12VDC 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.

