



# PM212 - Supervised Linear Power Supply / Charger

## Overview:

PM212 supervised linear power supply/charger converts a low voltage “AC” input to a filtered and regulated 12VDC, 1 amp continuous power limited output.

## Specifications:

### Input:

- 16VAC/20VA

### Output:

- 12VDC output
- 1 amp continuous supply current
- Filtered and electronically regulated output
- Thermal and short circuit protection with auto reset

### Battery Backup:

- Built-in charger for sealed lead acid or gel type batteries
- Automatic switchover to stand-by battery when AC Fails
- PTC battery protection.

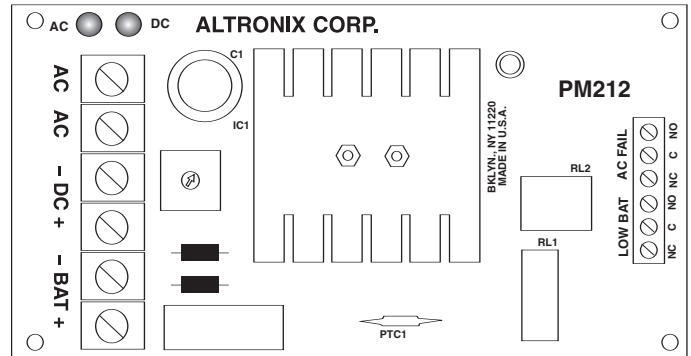
### Supervision:

- AC fail supervision (form “C” contacts)
- Low battery supervision (form “C” contacts)
- Low battery disconnect prevents batteries from deep discharge

### Additional Features:

- AC input and DC output LED indicators
- Includes battery leads

Board Dimensions: 5.25"L x 2.75"W x 1.5"H (approximate)



## Installation Instructions:

1. Connect proper transformer (16VAC, 20VA) to terminals marked [AC].
2. Measure output voltage before connecting devices. This helps avoid potential damage.
3. Connect devices to be powered to terminals marked [- DC +], carefully observing polarity.
4. When the use of stand-by batteries are desired, they must be lead acid or gel type.  
Connect battery to terminals marked [- BAT +] on the unit (battery leads included).
5. Connect appropriate signaling notification devices to AC Fail & Low battery supervisory relay output terminals marked [N.C., C, N.O.].

**Note:** During normal operation (AC and battery connected). the N.C. and C relay contacts will be in the closed position and the N.O. and C relay contacts will be in the open position.

These contacts are rated at 2 amp, 120VAC/28VDC

## **Terminal Identification:**

<b>Terminal Legend</b>	<b>Function/Description</b>
AC / AC	Low voltage AC input (16VAC / 20VA min.). Altronix part # TP1620.
+ DC -	12VDC @ 1 amp continuous power limited output.
AC FAIL N.C., C, N.O.	Used to notify loss of AC power, e.g. connect to audible device or alarm panel. Relay normally energized when AC power is present. Contact rating 2 amp @ 120VAC / 28VDC
Low Battery N.C., C, N.O.	Used to indicate low battery condition, e.g. connect to alarm panel. Relay normally energized when DC power is present. Contact rating 2 amp @ 120VAC / 28VDC
- BAT +	Stand-by battery connections. Maximum charge rate 200mA.

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