



## PM212 Supervised Linear Power Supply/Charger

### Overview:

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

### Specifications:

#### Input:

- 16VAC/20VA.

#### Output:

- 12VDC output.
- 1A 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.

#### Battery Backup (cont'd):

- PTC battery protection.

#### Supervision:

- AC fail supervision (form "C" contacts).
- Low battery supervision (form "C" contacts).

#### Additional Features:

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

#### Board Dimensions (W x L x H approximate):

2.75" x 5.25" x 1.5" (69.9mm x 133.4mm x 38.1mm).

### Installation Instructions:

1. Mount PM212 in the desired location/enclosure (mounting hardware included).
2. Connect proper transformer (16VAC, 20VA) to the terminals marked [AC].
3. Measure output voltage before connecting devices. This helps avoiding potential damage.
4. Connect devices to be powered to the terminals marked [- DC +], carefully observing polarity.
5. When the use of stand-by batteries is desired, they must be lead acid or gel type.  
Connect battery to the terminals marked [- BAT +] on the unit (battery leads included).
6. Connect appropriate signaling notification devices to AC Fail & Low battery supervisory relay output terminals marked [N.C., C, N.O.].

**Note:** When batteries are not used, a loss of AC will result in the loss of output voltage.

**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.

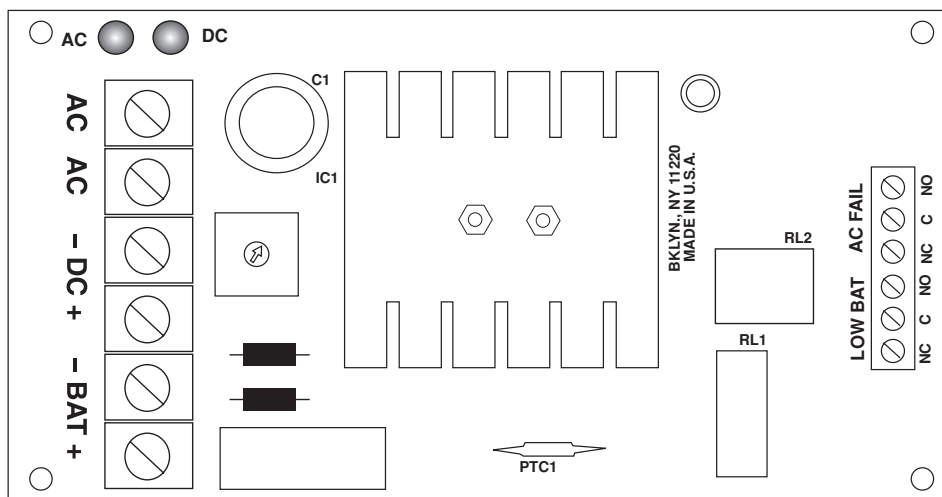
These contacts are rated at 2A, 120VAC/28VDC.

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



Altronix is not responsible for any typographical errors.

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