

Overview:

Altronix POE240 provides 240W for NetWay Spectrum switches with 1Gb SFP ports. It converts 115VAC, 60Hz or 230VAC, 50/60Hz input into a 56VDC at 4.5A of continuous supply current (see specifications). It also features a built-in charger for LiFePO₄ (Lithium Iron Phosphate), sealed lead acid or gel type batteries.

Fig. 1

Specifications:

Input:

- Auto-ranging 100-265VAC, 50/60Hz, 2.5A.

Output:

- 56VDC/240W output.
- 4.25A continuous supply current.
- Filtered and electronically regulated output.
- Short circuit and thermal overload protection.

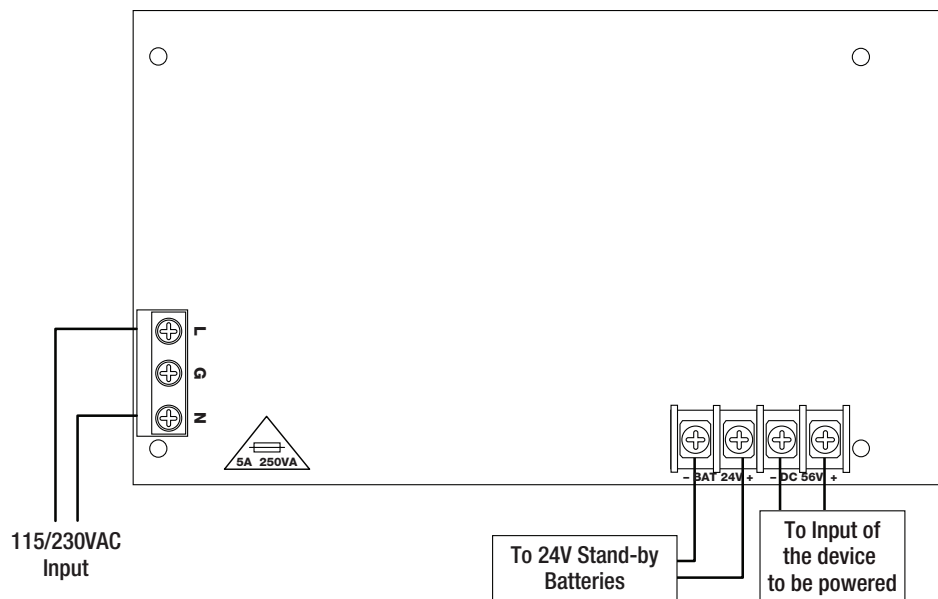
Battery Backup:

- 24VDC charging circuit charges LiFePO₄ (Lithium Iron Phosphate) or sealed lead acid* or gel type* batteries.
- Automatic switch over to stand-by battery when AC fails.
- Includes battery leads.

Environmental:

- Operating Temperature (De-Rating):
240W: – 30°C to 55°C (– 22°F to 131°F).
180W: – 30°C to 65°C (– 22°F to 149°F).
150W: – 30°C to 75°C (– 22°F to 167°F).
- Storage Temperature: – 30°C to 85°C (– 22°F to 185°F).
- Relative Humidity: 85% +/- 5%.

Board Dimensions (L x W x H approx.): 7.75" x 4.5" x 1.375" (196.9mm x 114.3mm x 34.9mm).



Installation Instructions:

POE240 should be installed in accordance with The National Electrical Code and all applicable Local Regulations.

1. Mount POE240 in the desired location/enclosure (mounting hardware included). Pay attention to correct positioning of the board, depending on Altronix product being serviced. Mounting hardware included.
2. Connect AC power from overcurrent protective device circuit breaker (20A @ 115VAC, 60Hz, 16A @ 230VAC, 50/60Hz) to the terminals marked [L, N] on power supply board (Fig. 1). Use 14AWG or larger for all power connections (Battery, DC output, AC input).

Keep power-limited wiring separate from non power-limited wiring (115VAC/230VAC 50/60Hz Input, Battery Wires).

Minimum 0.25" spacing must be provided.

CAUTION: Do not touch exposed metal parts. Shut branch circuit power before installing or servicing equipment.

There are no user serviceable parts on unit. Refer installation and servicing to qualified service personnel.

3. Measure output voltage before connecting devices. This helps avoiding potential damage.
4. Connect devices to be powered to the terminals marked [- DC 56V +].
5. When the use of stand-by batteries is desired, they must be LiFePO₄ sealed lead acid or gel type. Connect two (2) 12VDC batteries wired in series or one (1) 24V battery to terminals marked [- BAT +] (Fig. 1), carefully observing polarity (battery leads are included). When batteries are not used, a loss of AC will result in the loss of output voltage.

Note: When using two 12V LiFePO₄ (lithium iron phosphate) batteries, check with manufacturer specifications that batteries can be connected in series.

Terminal Identification:

Terminal Legend	Function/Description
L, G, N	Connect 115VAC/230VAC to these terminals: L to Hot, N to Neutral.
- DC 56V +	56VDC @ 4.5A continuous supply current.
- BAT 24V +	Stand-by battery connections.