POE201
Power Supply/Charger Board

Overview:
Altronix POE201 provides 120W for NetWay Spectrum switches with 1Gb SFP ports. It converts 115VAC, 60Hz or 230VAC, 50Hz input into a 56VDC at 2.2A of continuous supply current (see specifications). It also features a built-in charger for sealed lead acid or gel type batteries.

Specifications:

Input:
- 115VAC, 60Hz, 2.5A or 230VAC, 50Hz, 1.3A.

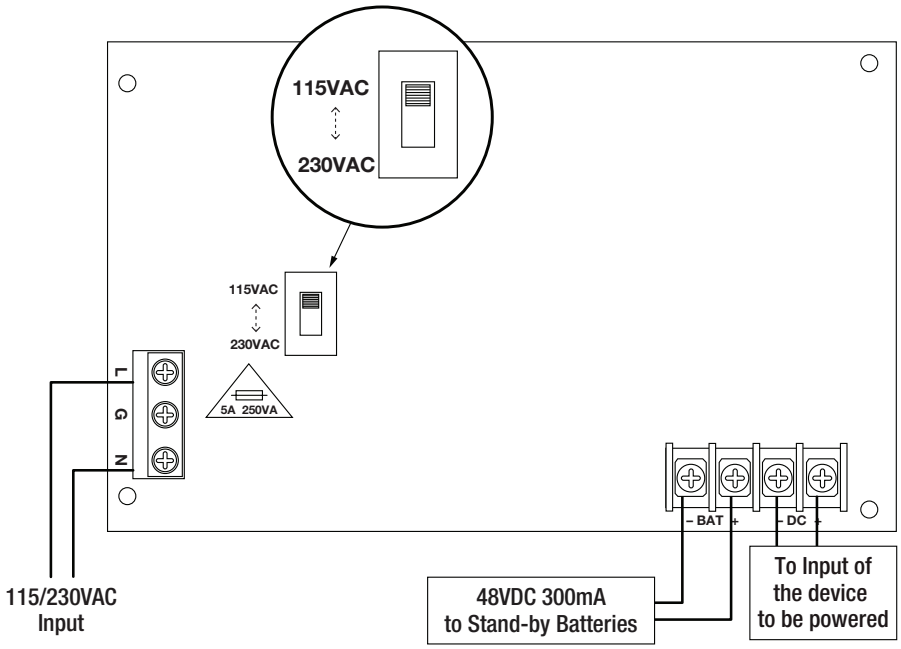
Output:
- 56VDC/120W output.
- 2.2A continuous supply current.
- Filtered and electronically regulated output.
- Short circuit and thermal overload protection.

Battery Backup:
- Built-in charger for sealed lead acid or gel type batteries.
- Battery charging circuit: 48VDC, 300mA.
- Automatic switch over to stand-by battery when AC fails.

Features:
- Input voltage selection switch.
- Includes battery leads.

Board Dimensions (L x W x H approx.)**:**
7" x 4" x 1.375"
(177.8mm x 101.6mm x 34.9mm).

Fig. 1



Installation Instructions:
POE201 should be installed in accordance with The National Electrical Code and all applicable Local Regulations.
1. Mount POE201 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. Set POE201 to the proper AC input voltage via input voltage switch *(Fig. 1).*
3. 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.
4. Measure output voltage before connecting devices. This helps avoiding potential damage.
5. Connect devices to be powered to the terminals marked [– DC +].
6. When the use of stand-by batteries is desired, they must be lead acid or gel type.
   Connect four (4) 12VDC batteries wired in series to terminals marked [– BAT +] *(Fig. 1)*, carefully observing polarity (battery leads are included).
7. When batteries are not used, a loss of AC will result in the loss of output voltage.

Terminal Identification:

Terminal Legend	Function/Description
L, G, N	Connect 115VAC/230VAC to these terminals: L to Hot, N to Neutral.
– DC +	56VDC @ 2.2A continuous supply current.
– BAT +	Stand-by battery connections. Maximum charge rate 0.3A.

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