OLS200 - Off-line Switching Power Supply/Charger

Overview:

The OLS200 is a power supply/charger that converts 115VAC / 60Hz input, into a 12VDC @ 10 amp of continuous supply current (see specifications).

Specifications:

- 12VDC output.
- Input 115VAC / 60Hz, 1.9 amp.
- Maximum charge current .7 amp.
- 10 amp continuous supply current at 12VDC.
- Filtered and electronically regulated outputs.
- Built-in charger for sealed lead acid or gel type batteries.
- Automatic switch over to stand-by battery when AC fails (zero voltage drop).
- AC input and DC output LED indicators.
- AC fail supervision (form "C" contact).
- Low battery supervision (form "C" contact).
- Short circuit overload protection.
- Includes battery leads.

Board Dimensions: 4.5”W x 7.25”L x 2”H

Specified at 25˚ C ambient.

Installation Instructions:

The OLS200 should be installed in accordance with The National Electrical Code and all applicable Local Regulations.

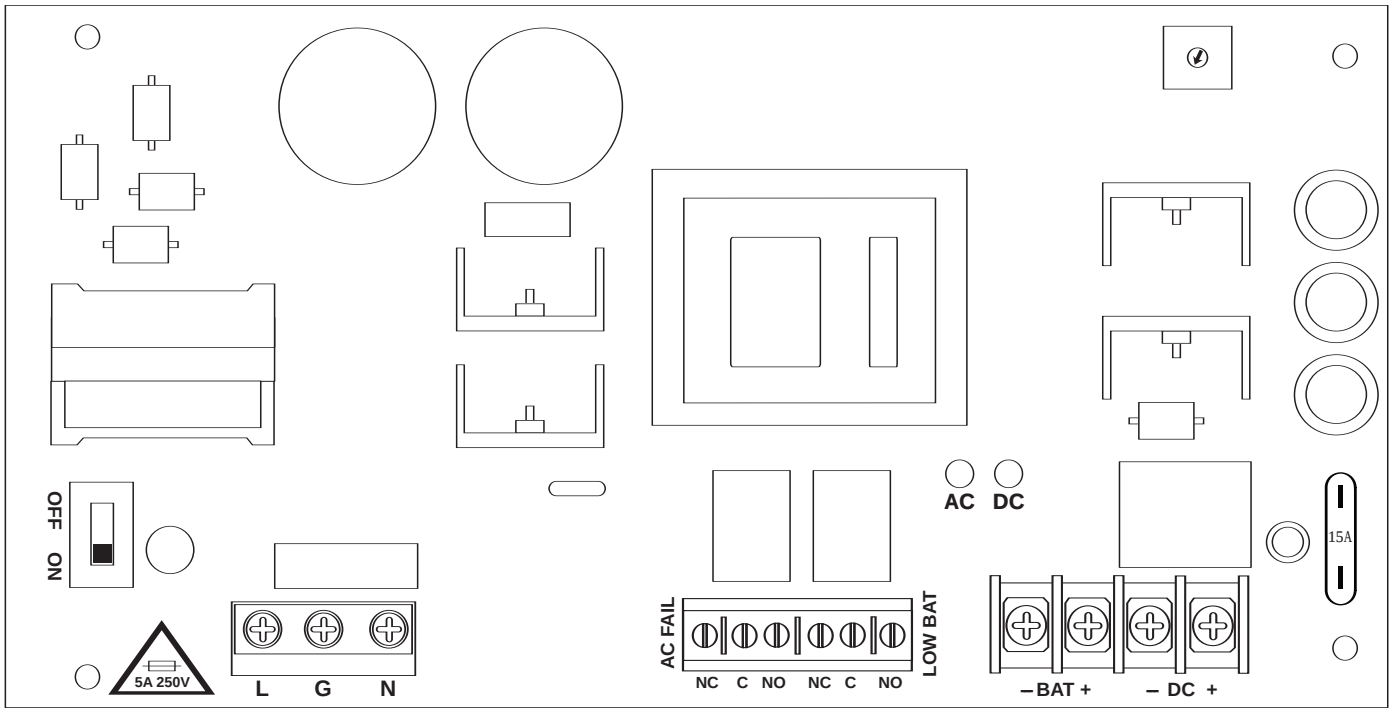
1. Mount the OLS200 in desired location/enclosure.
2. Connect AC power to terminals marked [L & N], connect ground to terminal marked [G].
   Use 18 AWG or larger for all power connections (Battery, DC output, AC input).
   Use 22 AWG to 18 AWG for power limited circuits (AC Fail/Low Battery reporting).
   Keep power limited wiring separate from non-power limited wiring (DC output, 115VAC / 60Hz Input, Battery Wires). Minimum .25” spacing must be provided.
3. Measure output voltage before connecting devices. This helps avoid potential damage.
4. Connect devices to be powered to terminals marked [– DC +].
5. When the use of stand-by batteries are desired, they must be lead acid or gel type.
6. Connect battery to terminals marked [– BAT +] (battery leads included).
   Note: When batteries are not used a loss of AC will result in the loss of output voltage.
7. Connect appropriate signaling notification devices to AC Fail & Low battery supervisory relay outputs marked [NC, C, NO].

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	Loss of AC. Discharged or no stand-by battery. No DC output.

Terminal Identification:

Terminal Legend	Function/Description
L, G, N	Connect 115VAC to these terminals: L to Hot, N to Neutral, G to ground.
– DC +	12VDC @ 10 amp continuous supply current.
AC FAIL NC, C, NO	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 1 amp @ 28VDC
Low Battery NC, C, NO	Used to indicate low battery condition, e.g. connect to alarm panel. Relay normally energized when DC power is present. Contact rating 1 amp @ 28VDC Low battery threshold: 12VDC output threshold set @ approximately 10.5VDC.
– BAT +	Stand-by battery connections. Maximum charge rate .7 amp.



Altronix is not responsible for any typographical errors. Product specifications are subject to change without notice.

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