



OLS180 Off-Line Switching Power Supply/Charger

Overview:

The OLS180 is a power supply/charger that converts 115VAC 60Hz input into a 12VDC or 24VDC @ 6A of continuous supply current (see specifications).

Specifications:

Input:

- 115VAC, 60Hz, 1.9A.

Output:

- 12VDC or 24VDC selectable output.
- 6A 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.
- Automatic switch over to stand-by battery when AC fails.
- Maximum charge current 0.5A.

Supervision:

- AC fail supervision (form “C” contacts).
- Battery presence and low battery supervision (form “C” contacts).

Visual Indicators:

- AC input and DC output LED indicators.

Features:

- Power ON/OFF switch.
- Includes battery leads.

Board Dimensions (L x W x H):

7.25” x 4.5” x 1.75” (184.1mm x 114.3mm x 44.45mm).

Voltage Output Selection Table:

Output VDC	Switch Position	Max. Load DC
12VDC	SW 1 - ON	6A
24VDC	SW1 - OFF	6A

Installation Instructions:

The OLS180 should be installed in accordance with The National Electrical Code and all applicable Local Regulations.

1. Mount the OLS180 in the desired location/enclosure.
2. Slide [Power ON/OFF] switch to OFF position.
3. Set the OLS180 to the desired DC output voltage via SW1 (*Voltage Output Selection Table*).

Keep power-limited wiring separate from non power-limited wiring (115VAC 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 inside. Refer installation and servicing to qualified service personnel.

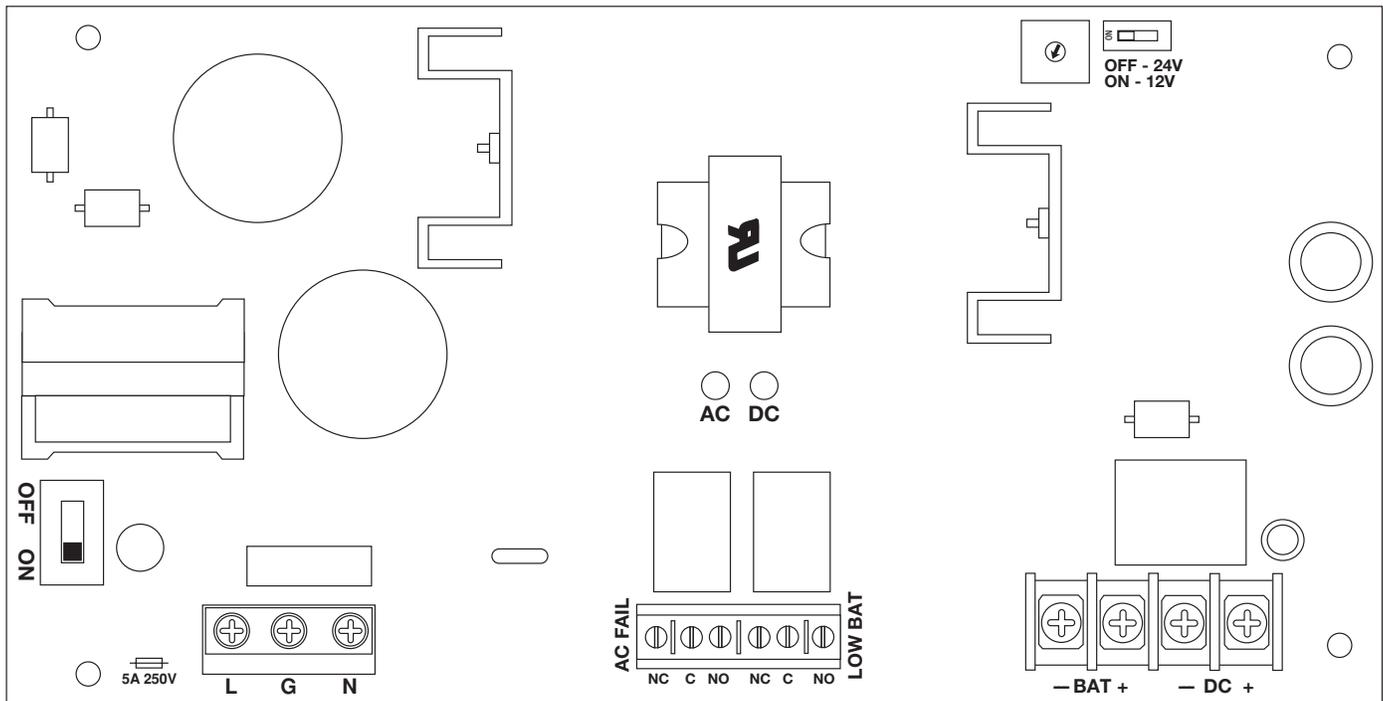
4. Connect AC power to the terminals marked [L & N], connect ground to the terminal marked [G].
Use 18 AWG or larger for all power connections (Battery, DC output).
Use 22 AWG to 18 AWG for power-limited circuits (AC Fail/Low Battery reporting).
5. Measure output voltage before connecting devices. This helps avoiding potential damage.
6. Connect devices to be powered to the terminals marked [- DC +].
7. When the use of stand-by batteries is desired, they must be lead acid or gel type.
Connect battery to the terminals marked [- BAT +] (battery leads included).
Use two (2) 12VDC batteries connected in series for 24VDC operation.
Note: When batteries are not used, a loss of AC will result in the loss of output voltage.
8. Connect appropriate signaling notification devices to AC Fail and Low Battery supervisory relay outputs marked [NC, C, NO].
9. Slide [Power ON/OFF] switch to ON position.

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 / 24VDC @ 6A continuous output.
AC FAIL NC, C, NO	Indicates loss of AC power, e.g. connect to audible device or alarm panel. Relay normally energized when AC power is present. Contact rating 1A @ 115VAC / 28VDC.
Low Battery NC, C, NO	Indicates low battery condition, e.g. connect to alarm panel. Relay normally energized when DC power is present. Contact rating 1A @ 115VAC / 28VDC Low battery threshold: 12VDC output threshold set @ approximately 10.5VDC, 24VDC output threshold set @ approximately 21VDC.
- BAT +	Stand-by battery connections. Maximum charge rate 0.5A.



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

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