Altronix® OLS20 - Offline Power Supply/Charger

Overview:

OLS20 power supply/charger converts 115VAC 50/60Hz input into a 12VDC @ 1 amp or 24VDC @ 0.5 amp of continuous supply current (refer to specifications). This general purpose power supply has a wide range of application for access control and security system accessories that require additional power.

Specifications:

Input:

- Input 115VAC 50/60Hz, 0.5 amp.

Output:

- 12VDC or 24VDC selectable operation.
- 0.5 amp continuous supply current @ 24VDC
  1 amp continuous supply current @ 12VDC.
- Filtered and electronically regulated outputs.
- Short circuit and thermal overload protection.

Battery Backup:

- Built-in charger for sealed lead acid or gel type batteries.
- Maximum charge current 0.5 amp.
- Automatic switch over to stand-by battery when AC fails.

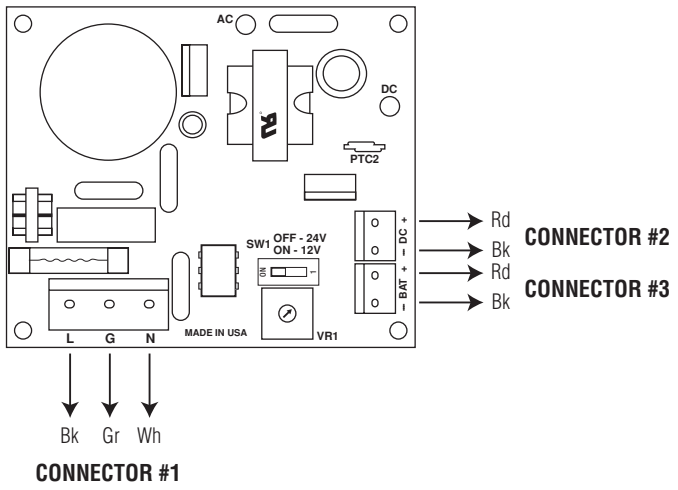
Additional Features:

- AC input and DC output LED indicators.
- Operating temperature: -20ºC to 50ºC.
- Includes battery leads.

Board Dimensions (approximate):
2.52” x 3” x 1.3” (63.55mm x 76.2mm x 33mm).

Specified at 25˚ C ambient.

Fig. 1



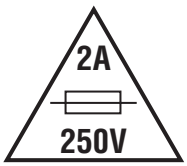
Voltage Output Selection Table:

Output VDC	Switch Position	Max. Load DC
12VDC	SW 1 - ON	1.2 amp
24VDC	SW1 - OFF	0.5 amp

Installation Instructions:

The OLS20 should be installed in accordance with the National Electrical Code and all applicable Local Regulations.

1. Mount the OLS20 in the desired location/enclosure.
2. Set the OLS20 to the desired DC output voltage via SW1 *(refer to Voltage Output Selection Table)*.
3. Connect AC power to connector #1 *(Fig. 1)* (black & white flying leads) and ground (green flying lead)
   Use 18 AWG or larger for all power connections (Battery, AC input).
   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. Measure output voltage before connecting devices. This helps avoiding potential damage.
5. Connect devices to be powered to the terminals marked [– DC +] *(Fig. 1)*.
6. When the use of stand-by batteries is desired, they must be lead acid or gel type.
   Connect battery to the terminals marked [– BAT +] *(Fig. 1)*.
   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.



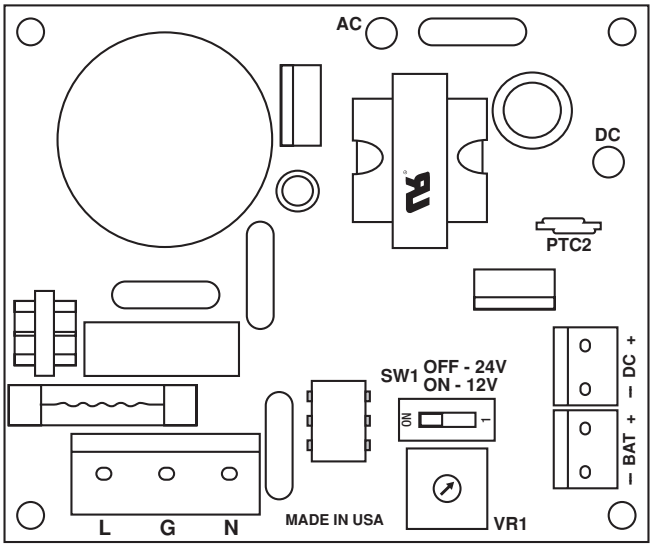
For continuous protection against fire replace fuse with the same type and rating 5mm - 20mm, 250V, 2A.

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: Black to Hot, White to Neutral, Green to ground.
+ DC -	12VDC @ 1.2 amp continuous supply current. 24VDC @ 0.5 amp continuous supply current.
- BAT +	Stand-by battery connections. Maximum charge rate 0.3 amp.



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