

Overview:

ReServ1 Video Surveillance UPS is designed to simultaneously provide power for 12VDC and 24VAC cameras during normal or power outage conditions. True sine wave regulated AC output.

Specifications:

Input:

- 115VAC 60 Hz, 1.9 amps.

Output:

- 12 individually fuse protected outputs configured as follows:
 - Eight (8) outputs @ 24VAC.
 - Four (4) outputs @ 12VDC.
- Unit will provide:

24VAC Output	12VDC Output
4 amp (max.)	—
3.5 amp (max.)	1 amp (max.)
3 amp (max.)	2 amp (max.)

- Blade type output fuses are rated at:
AC fuses rated @ 3 amp / 32V.
DC fuses rated @ 3 amp / 32V.

Battery Backup:

- Built-in charger for sealed lead acid or gel type batteries.
- Automatic switchover to stand-by battery when AC fails.

Visual Indicators:

- AC/DC power LED indicators.
- Individual power LED indicators.
- Low voltage input and Shutdown LED indicators.

Supervision:

- AC fail supervision (form "C" contacts).
- Low battery supervision (form "C" contacts).

Special Features:

- True sine wave regulated AC output.
- Power ON/OFF switch.
- Spare fuses included.
- Unit maintains camera synchronization.
- Ease of installation saves time and eliminates costly labor.

Enclosure:

- Enclosure accommodates up to two (2) 12VDC/7AH batteries.
- Enclosure dimensions: 13.5"H x 13"W x 3.25"D

Installation Instructions:

1. Mount unit in desired location. Mark and predrill holes in the wall to line up with the top two keyholes in the enclosure. Install two upper fasteners and screws in the wall with the screw heads protruding. Place the enclosure's upper keyholes over the two upper screws, level and secure. Mark the position of the lower two holes. Remove the enclosure. Drill the lower holes and install the two fasteners. Place the enclosure's upper keyholes over the two upper screws. Install the two lower screws and make sure to tighten all screws (*Enclosure Dimensions, pg. 4*). Secure enclosure to earth ground.
2. Slide power switch to OFF position (*Fig. 1a, pg. 2*).
3. Connect AC power mains to terminals marked [L & N], connect ground to terminal marked [G] (*Fig. 1, pg. 2*). Use 18 AWG or larger for all power connections (Battery, DC output) (*Fig. 1, pg. 2*). Use 18 AWG to 22 AWG for power limited circuits (AC Fail/Low Battery reporting) (*Fig. 1b, pg. 2*).
4. Slide power switch to ON position (*Fig. 1a, pg. 2*).
5. Measure output voltage before connecting devices. This helps avoid potential damage.
6. Slide power switch to OFF position (*Fig. 1a, pg. 2*).
7. Connect devices to output terminals using the following procedure.
Connect 24VAC cameras to terminals marked [24VAC, N-P] (*Fig. 1c, pg. 2*).
Connect 12VDC cameras to terminals marked [12VDC, + 1 -] carefully observing the correct polarity (*Fig. 1d, pg. 2*).
8. Slide power switch to ON position (*Fig. 1a, pg. 2*).
9. Green LED on the power supply board will illuminate when power is present.
10. Upon completion of wiring, secure enclosure door with screws (supplied).

WARNING: To reduce the risk of fire or electric shock, do not expose the unit to rain or moisture. This installation should be made by qualified service personnel and should conform to all local codes and in accordance with the National Electrical Code.

Fuse Replacement:

1. Before replacing fuses slide switch to OFF position.
2. Replace AC outputs fuses F1 or F4 with fuses rated @ 3 amp/32V.
Replace DC outputs fuses F1 or F4 with fuses rated @ 3 amp/32V.

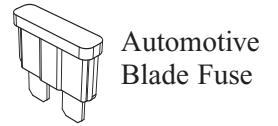


Fig. 1

Fig. 1a

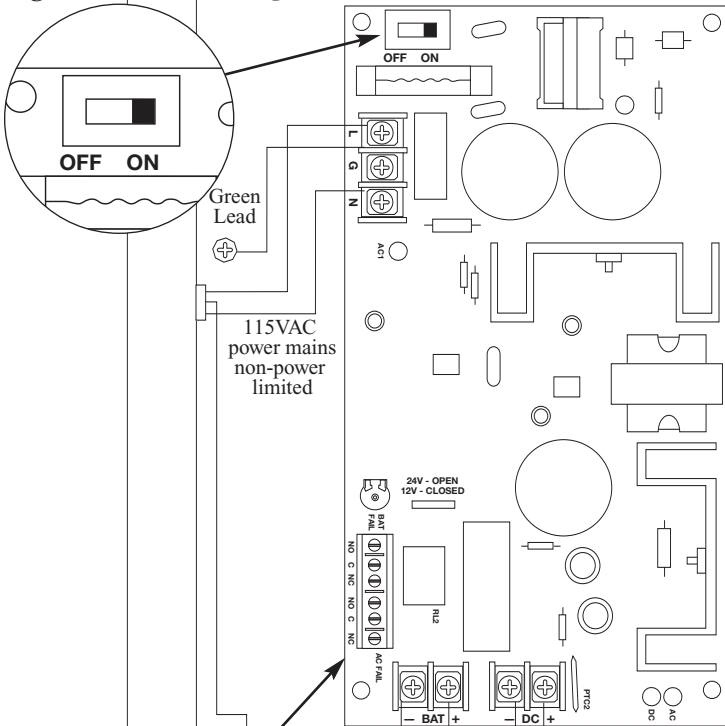


Fig. 1b

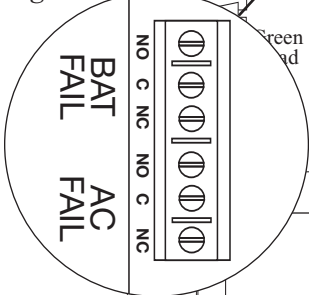
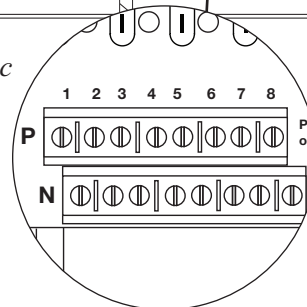
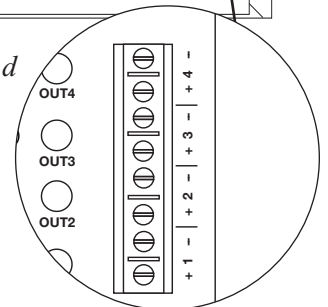


Fig. 1c



24VAC outputs

Fig. 1d



12VDC outputs

Stand-by Specifications:

Stand-by Battery	4 amp (100VA) Load at 24VAC and/or 12VDC max.
2 - 12VDC/7AH	45 minutes
2 - 12VDC/12AH	90 minutes

Terminal Identifications:

OLS120 Power Supply/Charger Board

Terminal Legend	Function/Description
L, G, N	Connect 115VAC to these terminals: L to Hot, N to Neutral, G to ground (if used).
+ DC -	24VDC @ 4 amp continuous output.
AC Fail NO, C, NC	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 NO, C, NC	Used to indicate low battery condition, e.g. connect to alarm panel. NO, C, NC Relay normally energized when DC power is present. Contact rating 1 amp @ 28VDC. Low battery threshold: 24VDC output threshold set @ approximately 21VDC.
- BAT +	Stand-by battery connections. Maximum charge rate .5 amp.

ReServ1B Circuit Board

Terminal Legend	Function/Description
Input + -	24VDC from OLS120 power supply/charger.
24VAC - N, P 1-8	24VAC outputs.
12VDC - + 1 - to + 4 -	12VDC outputs.

LED Diagnostics:

OLS120 Power Supply/Charger Board

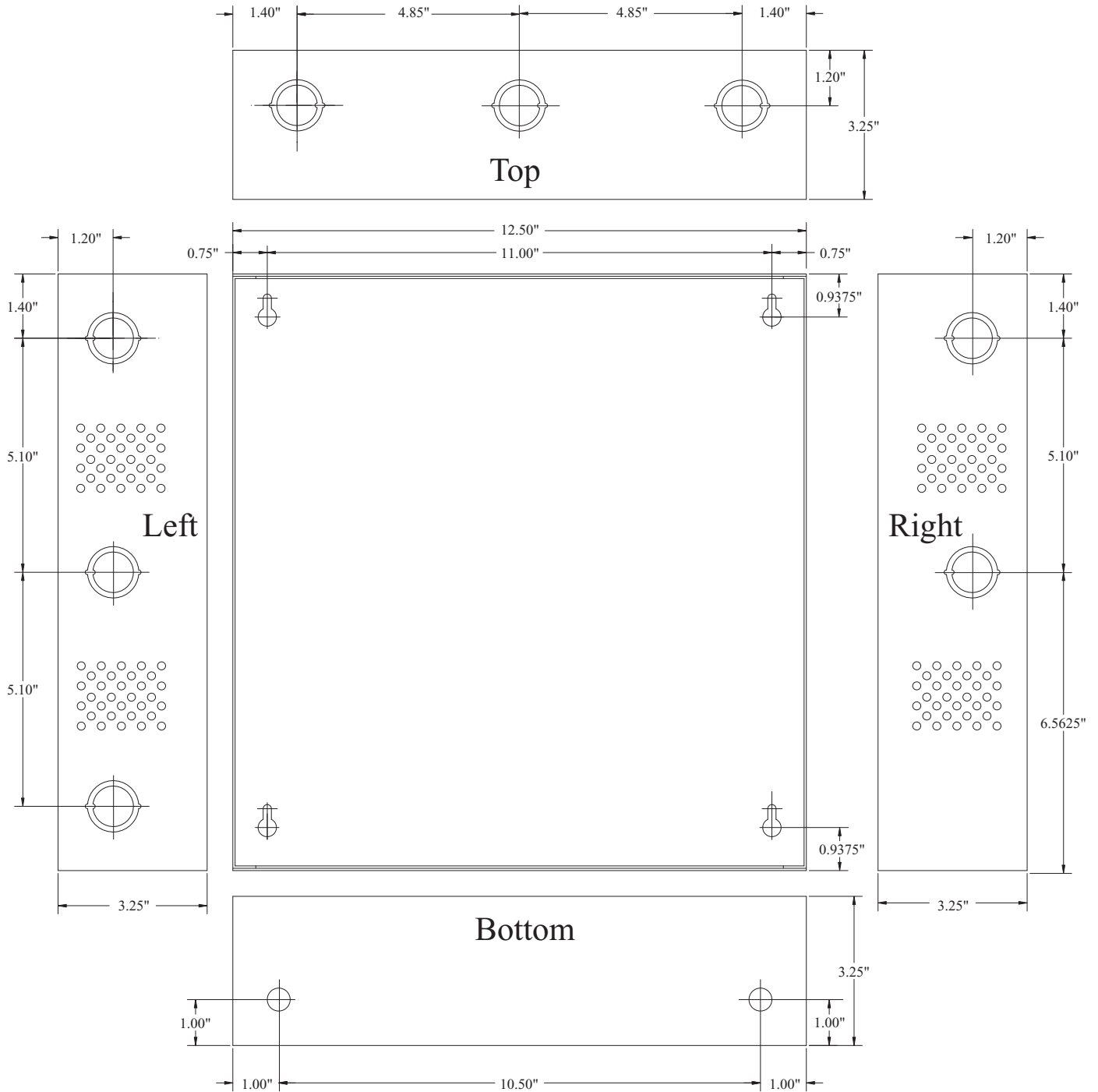
Red (DC)	Green (AC)	Power Supply Status
ON	ON	Normal operating condition.
ON	OFF	Loss of AC, Stand-by battery is supplying power.
OFF	ON	No DC output.
OFF	OFF	Loss of AC. Discharged or no stand-by battery. No DC output.

ReServ1B Circuit Board

LED	LED State		Description
24VAC Output 1-8	ON		Normal operating condition.
		OFF	Loss of output power.
12VDC Output 1-4	ON		Normal operating condition.
		OFF	Loss of output power.
Low Voltage Input	ON		Voltage input is low.
		OFF	Normal operating condition.
Shutdown	ON		No Power. Batteries are discharged.
		OFF	Normal operating condition.

Enclosure Dimensions:

13.5"H x 13"W x 3.25"D



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

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