

AC/DC LO-DENSITY POWER SUPPLY P/N 8806-1204-01

Key Features

- Input/Output status indicators
- 8 Output connections
- Wide operating temperature
- Lifetime warranty
- Wall mount design
- Uninterruptible battery backup



DESCRIPTION:

The RLH AC/DC Lo-Density Power Supply is an isolated 48VDC power source designed to provide uninterruptible power to up to eight (8) Fiber Optic Link Sub Cards (2 Wire or 4 Wire) or 35 watts. The power supply consists of (2) AC/DC rectifiers and 12V, 1.2AH battery backup contained in a thermo-plastic housing. The power supply requires a 115 VAC main supply for operation. A 0.6 amp fuse on the main input and a 3 amp fuse on the DC output protect the power supply. A green LED on the housing indicates AC input. A yellow LED indicates DC output. The batteries provides 1.2AH backup. The power supply will operate from -40° C to +70° C. Dimensions: H16.7" x W11.7" x D4.7". The housing is not weatherproof.

(Note: P/N 8806-1204-01NB does not have battery backup)

INSTALLATION:

Locate the power supply within 6 feet of main AC source. Mount the power supply to a plywood backplane using the wood screws provided. After attaching the housing to the backplane, use a 3/8" hex nut driver to open the housing. Remove the 3 amp fuse (F2) taped to the inside of the power supply housing.

CAUTION: Installing F2 will immediately put battery output of 48VDC across connectors P1 and P2.

Insert the fuse into the fuse holder (F2) on the power supply printed circuit board (PCB). To prevent discharge of the power supply batteries, plug the power supply AC power cord into a main source. Connect Fiber Optic Link Cards or units to the P1 (+) and P2 (-) on the PCB. Connect the wires to P1 and P2. Close the access door and secure using a nut driver. Power supply is now in operation.



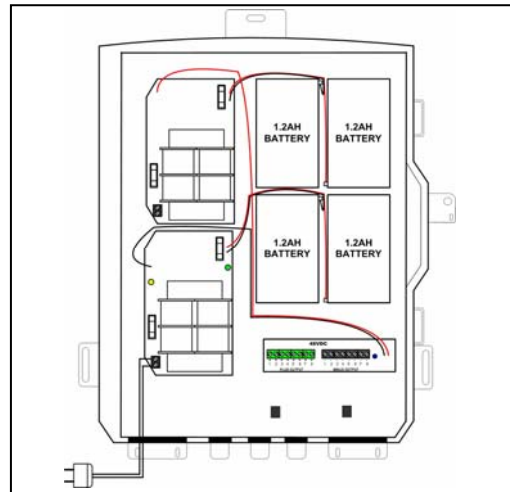
TROUBLESHOOTING:

Troubleshooting the AC/DC power supply always begins with the observation of the two (2) LEDs on the housing. The green LED indicates AC Input and Rectifier Output. The yellow LED indicates DC Output on (+) and (-) terminals.

Green LED	Yellow LED	Description
ON	ON	Normal operation. Note that these LEDs will be ON even if the battery backup is discharged or disconnected from the system.
OFF	ON	Loss of AC input or rectifier output. Power supply is operating on battery backup. Check main supply. Check AC input fuse (F1) 0.6 Amp (fast blow), on power supply PCB. Replace if blown.
ON	OFF	Output voltage less than 48VDC. Check load on power supply. Disconnect all cards/units. If yellow LED comes on, a defective card or unit is indicated. Reconnect cards one at a time to pinpoint trouble. Yellow LED shorted or disconnected.
OFF	OFF	Power supply inoperative. Batteries discharged or disconnected, check fuse (F2) 3 Amp (fast blow, 5x20mm). Replace if blown. Check main supply. If main supply OK, check fuse (F1) on power supply PCB. Replace with 0.6 Amp (fast blow). If still no output, power supply must be repaired. Replace with spare and return inoperative power supply to RLH Industries, Inc.

Table 1-1:

Load	Output Voltage	Battery Backup
183mA 25%	53.3V	6.6 Hours
365mA 50%	51.5V	3.3 Hours
548mA 75%	49.7V	1.7 Hours
730mA 100%	48.0V	0.8 Hours



SPECIFICATIONS:

Input Voltage: 115 VAC (108-125)
 Maximum Output Voltage: 55.2VDC +/- .1 VDC
 Housing Dimensions: Height: 16.7" x Width: 11.7" x Depth: 4.7"
 Weight: 10.2 lbs.
 Operating Temperature: -40°C to +70°C (-40°F to 158°F)
 Humidity: 0-100% non-condensing
 Battery Type: Sealed lead acid
 Battery Backup: 48V (4) 12-Volt batteries in series
 Battery Capacity: 1.2 Amp/hr.