

## Altronix AL175X220

# ALTRONIX AL175X220 Power Supply User Manual

Model: AL175X220

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of the Altronix AL175X220 Power Supply. Please read this manual thoroughly before attempting to install or operate the unit to ensure proper functionality and safety.



Figure 1: Altronix AL175X220 Power Supply with enclosure open.

This image displays the Altronix AL175X220 Power Supply unit. The metal enclosure is open, showing the internal circuit board, transformer, and a black battery located at the bottom. Wiring connects the components within the enclosure.

## 2. SETUP AND INSTALLATION

Proper installation is crucial for the safe and efficient operation of the AL175X220. Ensure all local and national electrical codes are followed.

### 2.1 Mounting

1. Select a suitable mounting location that is dry, well-ventilated, and protected from extreme temperatures and moisture.
2. Securely mount the power supply enclosure to a wall or other stable surface using appropriate fasteners.

### 2.2 Wiring

1. **Input Power:** Connect the 220V AC input power to the designated terminals on the power supply board. Ensure the power source is de-energized before making connections.
2. **Output Power:** Connect your devices requiring 12VDC or 24VDC to the appropriate output terminals. Verify correct polarity.
3. **Battery Backup (Optional):** If using battery backup, connect a compatible 12V or 24V battery to the

battery terminals. Observe correct polarity (+ to + and - to -).

4. **Grounding:** Ensure the unit is properly grounded according to local electrical codes.

**WARNING: Disconnect all power before servicing the unit.**

### 3. OPERATING INSTRUCTIONS

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Once installed, the AL175X220 operates automatically. Follow these steps for initial power-up.

1. After all wiring connections are complete and verified, apply 220V AC power to the unit.
2. Observe the status indicator LEDs (if present) on the circuit board. Refer to the product's technical specifications for LED meanings.
3. The unit will begin providing regulated 12VDC or 24VDC output to connected devices and will charge the connected backup battery (if installed).

### 4. MAINTENANCE

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The AL175X220 is designed for reliable operation with minimal maintenance. However, periodic checks can help ensure longevity and performance.

- **Annual Inspection:** Annually inspect the unit for any signs of physical damage, loose connections, or corrosion.
- **Battery Check (if applicable):** If a backup battery is installed, check its condition and charge level periodically. Replace batteries every 3-5 years or as recommended by the battery manufacturer.
- **Cleaning:** Keep the enclosure clean and free of dust and debris. Use a soft, dry cloth for cleaning. Do not use liquid cleaners.

### 5. TROUBLESHOOTING

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If the AL175X220 is not functioning as expected, refer to the following common issues and solutions.

- **No Output Power:**
  - Check the 220V AC input power source.
  - Verify all wiring connections are secure and correct.
  - Check for blown fuses or tripped circuit breakers within the unit or external power circuit.
- **Battery Not Charging:**
  - Ensure the battery is properly connected with correct polarity.
  - Check the battery's condition; it may be faulty or at the end of its life.
  - Verify AC input power is present.
- **Overload Condition:**
  - If the unit shuts down or indicators suggest an overload, disconnect some load devices.
  - Ensure the total current draw of connected devices does not exceed the power supply's rated output (1.5AMP).

If problems persist after attempting these solutions, contact Altronix technical support.

## 6. SPECIFICATIONS

Specification	Value
Model	AL175X220
Input Voltage	220V AC
Output Voltage	12VDC / 24VDC (selectable)
Output Current	1.5 AMP
Manufacturer	ALTRONIX
ASIN	B002PNC9HC
Date First Available	February 12, 2012

## 7. WARRANTY INFORMATION

Altronix products are designed for high reliability. For detailed warranty terms and conditions, please refer to the official Altronix website or the warranty card included with your product packaging. Keep your proof of purchase for warranty claims.

## 8. TECHNICAL SUPPORT

For technical assistance, product inquiries, or service, please contact Altronix customer support through their official website or the contact information provided in your product documentation.

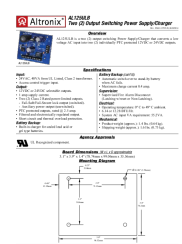
**Altronix Official Website:** [www.altronix.com](http://www.altronix.com) (Please note: This is a generic placeholder URL as specific support links were not provided.)

### Related Documents



## Altronix OLS75 Off-Line Power Supply/Charger Installation Guide

Installation guide for the Altronix OLS75 Off-Line Power Supply/Charger, detailing specifications, features, and installation instructions for 12VDC/24VDC selectable output with 2.5A continuous current.



[Altronix AL125ULB Two Output Switching Power Supply/Charger Datasheet](#)

Technical specifications and overview for the Altronix AL125ULB, a two-output switching power supply and charger with PTC protected 12VDC/24VDC outputs, battery backup, and supervision features.



## Altronix OLS120 Power Supply Charger Installation Guide | Technical Specifications

Detailed installation guide and technical specifications for the Altronix OLS120 Off-Line Power Supply/Charger, covering overview, input/output, battery backup, supervision, and terminal identification.



## Altronix AL624 Power Supply/Charger: Specifications and Overview

Comprehensive details on the Altronix AL624 Power Supply/Charger, covering its overview, technical specifications, input/output voltage selection, installation instructions, LED diagnostics, and terminal identification for access control, security, and CCTV systems.



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AL175220 Series Access Control Power Supply/Chargers Models Include: AL175220

- Enclosure Dimensions: 8.5 x 7.5 x 3.5 215.9mm x 190.5mm x 88.9mm . -

Accommodates one 1 12VDC/4AH battery. **AL175X220** - Enclosure Dimensions: 13.5  
x 13 x 3.25 342.9mm x 330.2mm x 82.6mm . - Accommodates up to tw...

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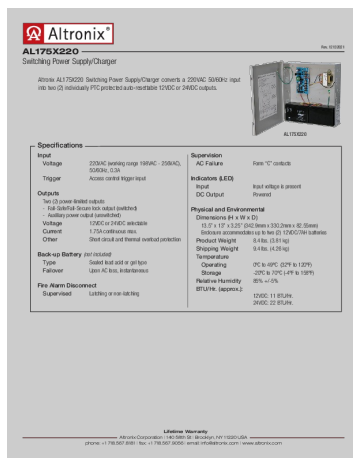
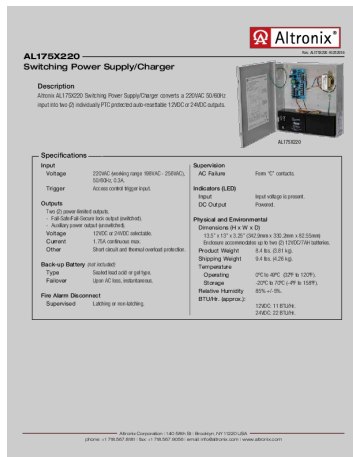
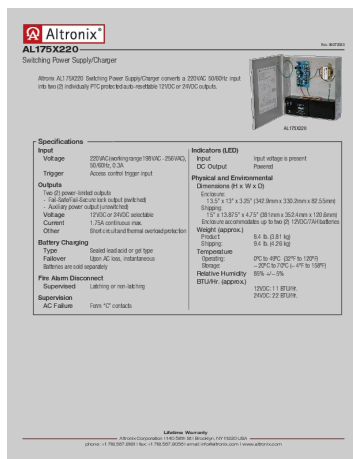
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Accommodates one 1 12VDC/4AH battery. **AL175X220** - Enclosure Dimensions: 13.5  
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**AL175X220** Switching Power Supply/Charger Description Altronix**AL175X220**  
Switching Power Supply/Charger converts a 220VAC 50/60Hz input into two 2  
individually PTC protected auto-resettable 12VDC or 24VDC outputs. Rev.

**AL175X220-10252016 AL175X220** Specifications Input Voltage Trigger 220VAC  
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