

WFCO WF-8955-AD

WFCO Arterra WF-8955-AD Converter/Charger User Manual

Model: WF-8955-AD | Brand: WFCO

1. PRODUCT OVERVIEW

The WFCO Arterra WF-8955-AD Converter/Charger with Distribution Center is designed to provide reliable power conversion and distribution for recreational vehicles. This updated model incorporates an industry-first, Patent Pending Auto-Detect technology, which intelligently identifies the connected battery type (lithium ion or lead acid) and automatically adjusts its charging profile for optimal performance and battery longevity.

Key Features:

- **Output Power:** 940 W
- **Output Current:** 50 A, 55 A
- **Input Voltage/Hz:** 105-130 VAC, 60 Hz
- **Weight:** 7 lbs.
- **Converter Type:** Three-Stage Converter Charger, Two Stage Converter Charger
- **Auto-Detect Technology:** Automatically recognizes lithium ion and lead acid battery chemistries.
- **Multi-Stage Charging:** Maximizes battery life and prevents over/undercharging.

2. SETUP AND INSTALLATION

Installation of the WF-8955-AD unit requires familiarity with electrical systems. It is highly recommended that installation be performed by a qualified technician to ensure safety and proper functionality.

2.1. Mounting

The unit is designed for flush mounting within an RV's interior. Ensure adequate ventilation around the unit to prevent overheating. Refer to the product dimensions for precise cutout requirements: 16 x 11.25 x 13.75 inches.

2.2. Wiring Connections

All wiring should comply with local and national electrical codes. The unit provides clearly labeled terminals for AC input, DC output, and individual circuit connections. The main AC input requires a 30 Amp AC service. DC output supports 55 Amp. Output terminals are rated for 105°C.



Figure 1: Internal view of the WF-8955-AD power center, displaying the layout of circuit breakers, fuses, and internal wiring instructions. A QR code is visible for additional product information. For more details, scan the QR code or visit <http://qr.w69b.com/g/oMzse9i3C>.



Figure 2: Front view of the WF-8955-AD power center, highlighting the Auto-Detect feature sticker.

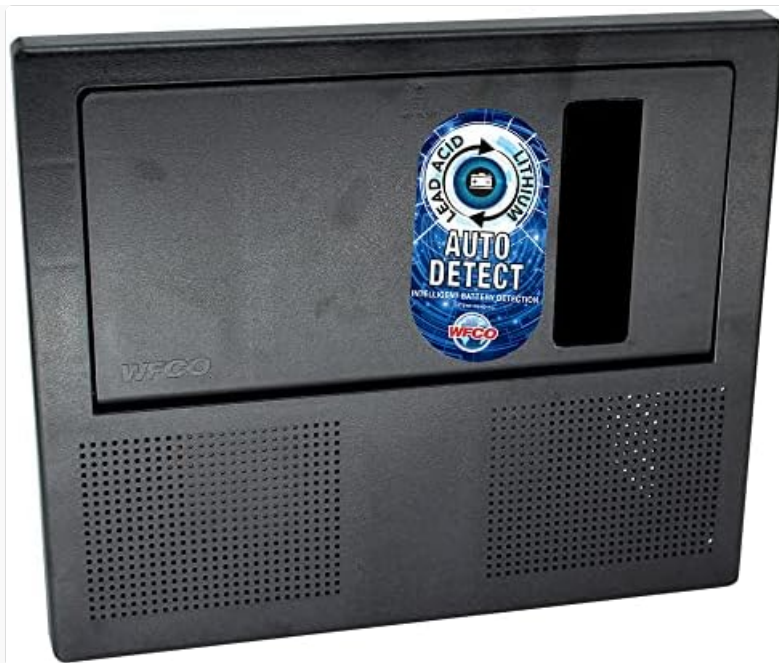


Figure 3: Side view of the WF-8955-AD power center, showing its depth and ventilation grilles.

2.3. Battery Auto-Detect Technology

The WF-8955-AD features advanced Auto-Detect technology. Upon connection, the converter will automatically sense whether a lithium ion or lead acid battery is connected and adjust its charging algorithm accordingly. No manual selection or switches are required for this function.

3. OPERATION

Once properly installed and connected to an AC power source and battery, the WF-8955-AD will begin operating automatically.

3.1. AC Distribution

The unit serves as a distribution center for your RV's 30 Amp AC service, providing power to various AC appliances through its integrated circuit breakers. Ensure all AC loads are within the rated capacity of their respective breakers.

3.2. DC Distribution

The DC section of the power center distributes 12-volt DC power to your RV's DC loads, such as lights, fans, and water pumps, through its fused circuits. Each circuit is protected by a replaceable fuse.

3.3. Converter/Charger Function

The converter section transforms 120 VAC shore power into 12 VDC power to operate your RV's DC appliances and charge the house battery. The Auto-Detect feature ensures the battery receives the correct charging profile (multi-stage for lead acid, constant voltage for lithium).

4. MAINTENANCE

Regular maintenance helps ensure the longevity and safe operation of your WF-8955-AD power center.

- **Fuse and Breaker Checks:** Periodically inspect all fuses and circuit breakers for proper function. Replace blown fuses with those of the correct amperage and type (e.g., 15A branch circuit, 20A branch circuit, 30A main circuit).
- **Ventilation:** Ensure that the ventilation openings on the unit are not obstructed. Clear any dust or debris that may accumulate.
- **Connections:** Annually check all electrical connections for tightness. Loose connections can cause overheating and poor performance.
- **Cleaning:** Keep the exterior of the unit clean and free of dirt. Use a dry cloth for cleaning. Do not use liquid cleaners.

5. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your WF-8955-AD power center.

- **No Power to DC Loads:**
 - Check the main DC fuse and individual circuit fuses.
 - Verify that the RV battery is charged and properly connected.
 - Ensure AC shore power is connected and active.
- **No Power to AC Loads:**
 - Check the main AC circuit breaker and individual branch circuit breakers. Reset if tripped.
 - Verify the shore power connection and the RV's main breaker.
- **Battery Not Charging:**
 - Confirm AC power is supplied to the converter.
 - Check the reverse polarity fuses (if applicable, typically two 40A fuses).
 - Ensure battery connections are clean and secure.
 - Allow time for the Auto-Detect feature to identify the battery type and initiate charging.
- **Humming Noise:**
 - A slight humming noise can be normal, especially when the converter is under load (e.g., when lights or other DC appliances are active).
 - If the humming is excessively loud or accompanied by other unusual sounds, consult a qualified technician.

6. SPECIFICATIONS

Attribute	Value
Manufacturer	WFCO
Model	WF-8955-AD
Item Weight	1 pounds
Product Dimensions	16 x 11.25 x 13.75 inches
Input Voltage/Frequency	105-130 VAC, 60 Hz

Output Current	50 A, 55 A
Output Power	940 W
Converter Type	Three-Stage Converter Charger, Two Stage Converter Charger
First Available Date	June 15, 2022

7. WARRANTY AND SUPPORT

WFCO products are designed for durability and performance. For specific warranty terms and conditions, please refer to the documentation included with your product or visit the official WFCO website. In case of technical issues or questions, contact WFCO customer support.

Contact Information: Please refer to the manufacturer's official website or product packaging for the most current support contact details.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question