

OPTIMA D34

OPTIMA D34 YellowTop Dual Purpose Sealed AGM Battery User Manual

1. INTRODUCTION

This manual provides essential information for the safe and effective use of your OPTIMA D34 YellowTop Dual Purpose Sealed AGM Battery. The OPTIMA YellowTop battery is designed for high-performance applications, offering both strong cranking power and deep-cycle capabilities. It is suitable for vehicles with significant accessory loads, such as cars, trucks, and SUVs.

2. PRODUCT OVERVIEW

The OPTIMA D34 YellowTop battery features advanced AGM (Absorbed Glass Mat) technology, providing a sealed, maintenance-free power source. Its unique SpiralCell Technology enhances power delivery and vibration resistance.

Key Features:

- **Dual Purpose Design:** Functions as both a starting battery and a deep-cycle battery.
- **Maintenance-Free:** Sealed design eliminates the need for water additions.
- **Spillproof:** Can be mounted in various positions without leakage.
- **Vibration Resistance:** Up to 15 times more resistant to vibration compared to standard flooded batteries.
- **Faster Recharging:** Designed for efficient recharging.
- **Longer Life:** Offers up to three times longer life than standard flooded batteries.

Product Components:



Image 2.1: Front view of the OPTIMA D34 YellowTop battery, showing the yellow top cover and gray casing with positive (red) and negative (black) terminals.

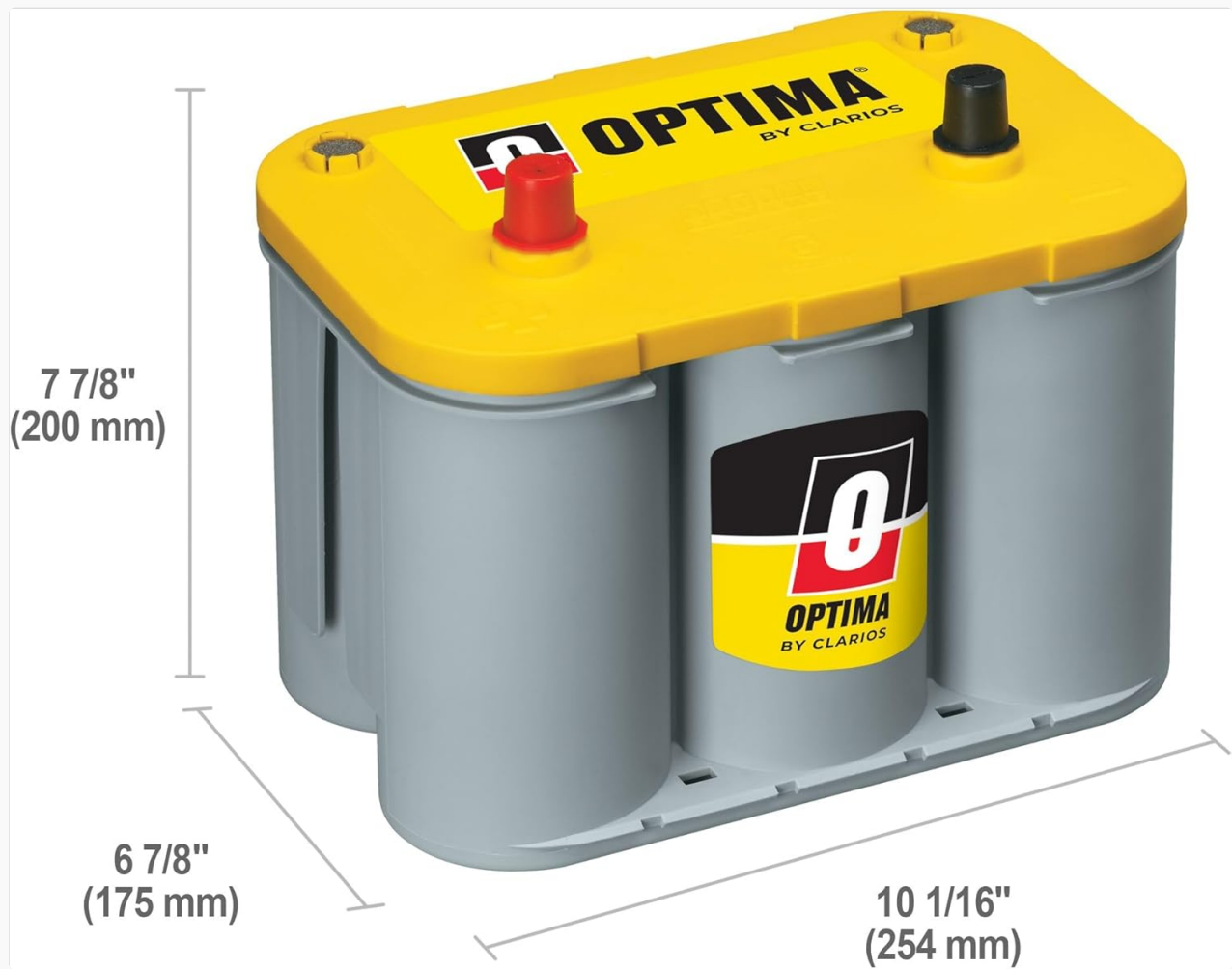


Image 2.2: Angled view of the OPTIMA D34 YellowTop battery, highlighting the compact design and terminal placement.



Image 2.3: Side view of the OPTIMA D34 YellowTop battery, showing the cylindrical cells within the casing.



Image 2.4: Top view of the OPTIMA D34 YellowTop battery, illustrating its dimensions: 10 1/16" (254 mm) length, 6 7/8" (175 mm) width, and 7 7/8" (200 mm) height.

3. SAFETY INFORMATION

WARNING: Batteries contain sulfuric acid and produce explosive gases. Improper handling can cause severe injury or death. Always wear eye protection and gloves when working with batteries.

- Keep batteries out of reach of children.
- Do not smoke or allow open flames near batteries.
- Ensure adequate ventilation when charging or working with batteries.
- Avoid contact with battery acid. In case of contact, flush immediately with water and seek medical attention.
- Do not short-circuit battery terminals.
- Always disconnect the negative (-) terminal first and connect it last during installation or removal.
- Refer to your vehicle's owner's manual for specific battery handling and installation procedures.

4. SETUP AND INSTALLATION

Proper installation is crucial for battery performance and safety. If you are unsure about any step, consult a qualified technician.

1. Preparation:

- Ensure the vehicle's ignition is off and all accessories are disconnected.
- Wear appropriate safety gear: eye protection and gloves.
- Gather necessary tools: wrench, battery terminal cleaner, anti-corrosion spray.

2. Removing the Old Battery:

- Locate the battery in your vehicle.
- Disconnect the negative (-) terminal first, then the positive (+) terminal.
- Remove any battery hold-down clamps or straps.
- Carefully lift and remove the old battery, noting its orientation. Batteries are heavy; use proper lifting techniques or seek assistance.

3. Installing the OPTIMA D34 YellowTop Battery:

- Clean the battery tray and terminal clamps thoroughly to ensure good electrical contact.
- Place the new OPTIMA D34 YellowTop battery into the battery tray, ensuring it is securely seated and oriented correctly (positive to positive, negative to negative).
- Secure the battery with hold-down clamps or straps.
- Connect the positive (+) terminal first, then the negative (-) terminal. Ensure connections are tight.
- Apply anti-corrosion spray to the terminals to prevent corrosion.

4. Post-Installation Check:

- Verify all connections are secure.
- Start the vehicle to confirm proper operation.
- Check for any warning lights on the dashboard.

Note: Due to variations in vehicle designs, some modifications to battery cables or trays may be necessary for proper fitment in certain models. Always ensure secure connections and proper clearance.

5. OPERATING INSTRUCTIONS

The OPTIMA D34 YellowTop is a dual-purpose battery, meaning it is designed to provide both starting power and sustained power for accessories. It is suitable for vehicles with high electrical demands.

- **Starting Power:** The battery delivers high cold cranking amps (CCA) for reliable engine starting, even in challenging weather conditions.
- **Deep Cycle Use:** It can withstand repeated discharge and recharge cycles, making it ideal for powering vehicle accessories, audio systems, winches, or other high-demand electronics without compromising starting ability.
- **Charging:** For optimal performance and longevity, use a battery charger compatible with AGM batteries. Avoid overcharging or undercharging.

6. MAINTENANCE

The OPTIMA D34 YellowTop battery is designed to be maintenance-free, meaning it does not require water additions. However, periodic checks can help ensure its longevity and performance.

- **Terminal Inspection:** Periodically inspect battery terminals for corrosion or loose connections. Clean terminals with a battery brush and baking soda solution if corrosion is present, then rinse with water and dry. Ensure connections are tight.
- **Battery Case Inspection:** Check the battery case for any signs of damage, cracks, or bulging. If damage is observed, the battery should be replaced.
- **Charge Level:** If the vehicle is stored for extended periods or used infrequently, consider using a trickle charger or battery maintainer specifically designed for AGM batteries to keep the charge level optimal.
- **Cleaning:** Keep the top of the battery clean and dry to prevent dirt and moisture from creating conductive paths.

7. TROUBLESHOOTING

If you encounter issues with your OPTIMA D34 YellowTop battery, consider the following common troubleshooting steps:

- **Vehicle Not Starting / Slow Cranking:**
 - Check battery terminals for tightness and corrosion. Loose or corroded connections can impede current flow.
 - Ensure the battery is fully charged. A low charge can result in slow cranking or failure to start.
 - Have the vehicle's charging system (alternator) checked by a professional to ensure it is properly charging the battery.
 - If the battery is old, its capacity may have diminished.
- **Battery Not Holding a Charge:**
 - Verify there are no parasitic drains on the vehicle's electrical system (e.g., lights left on, faulty accessories).
 - Ensure the charging system is functioning correctly.
 - The battery may have been deeply discharged multiple times, which can reduce its overall lifespan if not properly recharged.
- **Physical Fitment Issues:**

- The OPTIMA D34 has specific dimensions (10" x 6 7/8" x 7 13/16"). Compare these to your vehicle's battery tray and available space.
- Terminal orientation and cable length can vary by vehicle. Minor adjustments or specialized terminals may be required in some cases.

If problems persist after performing these checks, it is recommended to consult a professional automotive technician or contact OPTIMA customer support.

8. SPECIFICATIONS

Feature	Specification
Model Number	D34 (OEM Part Number: 8012-021)
Voltage	12-Volt
Cold Cranking Amps (CCA)	750 CCA
C20 Capacity	55 AH
Reserve Capacity	120 minutes
Dimensions (L x W x H)	10" x 6 7/8" x 7 13/16" (254mm x 175mm x 200mm)
Weight	42.9 pounds
Terminal Type	SAE Terminal
Technology	Sealed AGM, SpiralCell Technology
UPC	811405000218


9. WARRANTY AND SUPPORT




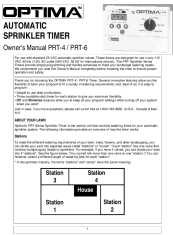
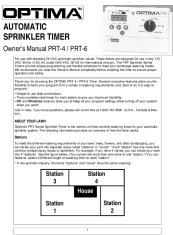
For warranty information and customer support, please refer to the official OPTIMA Batteries website or contact their customer service directly. Warranty terms and conditions may vary based on purchase location and retailer. It is recommended to retain your proof of purchase for warranty claims.



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Related Documents - D34

	<p>OPTIMA D200+ 12V Performance Maintainer User Guide</p> <p>Comprehensive user guide for the OPTIMA D200+ 12V Performance Maintainer and 2 Amp Hypercore Lithium Charger. Covers features, safety, operation, installation, troubleshooting, and technical specifications for 12V batteries including Lithium LiFePO4, AGM, and Flooded Lead-Acid types.</p>
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	<p>OPTIMA D200+ 12V Performance Maintainer User Guide</p> <p>Comprehensive user guide for the OPTIMA D200+ 12V Performance Maintainer and 2 Amp HyperCore Lithium Charger. Covers safety instructions, product features, operation, installation, troubleshooting, and technical specifications.</p>
 <p>INSTALLATION MANUAL</p>	<p>Optima Fire Alarm Control Panel Installation Manual</p> <p>Comprehensive installation manual for the Optima Fire Alarm Control Panel (FACP), detailing wiring, configuration, mounting, and troubleshooting. Complies with EN54 and BS:EN 5839 standards.</p>
	<p>OPTIMA D26AT User Manual: Storage and Disposal Guide</p> <p>Concise guide on storing and disposing of OPTIMA D26AT rechargeable devices, covering temperature, humidity, charging, and WEEE directive compliance.</p>
	<p>Optima Automatic Sprinkler Timer PRT-4 / PRT-6 Owner's Manual</p> <p>Owner's manual for the Optima Automatic Sprinkler Timer PRT-4 / PRT-6, detailing installation, programming, and maintenance.</p>
	<p>Optima PRT-4/PRT-6 Automatic Sprinkler Timer User Manual</p> <p>This user manual provides detailed instructions for installing, programming, and maintaining the Optima PRT-4 and PRT-6 Automatic Sprinkler Timers. Learn how to set watering schedules, durations, and troubleshoot common issues.</p>