

## OPTIMA 34/78

# OPTIMA 34/78 RedTop Battery User Manual

Sealed AGM Car, Truck, and SUV Starting Battery

## 1. INTRODUCTION

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This manual provides essential information for the safe and effective use of your OPTIMA 34/78 RedTop Sealed AGM Starting Battery. The OPTIMA RedTop battery is engineered for high-power cranking ability, even in challenging weather conditions, making it suitable for various automotive applications including cars, trucks, and SUVs. Its unique SpiralCell design ensures a consistent and powerful energy source.



Image 1.1: OPTIMA 34/78 RedTop Battery, front view.

## 2. SAFETY INFORMATION

**WARNING: Batteries contain sulfuric acid and produce explosive gases. Improper handling can cause severe injury or death.**

- Always wear appropriate personal protective equipment, including safety glasses and gloves, when handling batteries.
- Ensure adequate ventilation when working with batteries to prevent the accumulation of explosive hydrogen gas.
- Keep sparks, flames, and smoking materials away from the battery.
- Avoid contact with battery acid. If contact occurs, flush immediately with water and seek medical attention.
- Do not short-circuit battery terminals.
- Keep batteries out of reach of children.

- Always disconnect the negative (black) terminal first and connect it last during installation or removal.

### 3. PRODUCT FEATURES

The OPTIMA 34/78 RedTop battery incorporates advanced technology for reliable performance:

- **SpiralCell Technology:** Utilizes 99.99% pure lead in a unique spiral-wound cell design, delivering more power and outperforming conventional flat-plate batteries. This design also contributes to superior vibration resistance.
- **High Cranking Amps:** Provides 800 Cold Cranking Amps (CCA) for optimal starting power, even in cold weather conditions.
- **Reserve Capacity:** Offers a reserve capacity of 100 minutes, ensuring sustained performance.
- **Maintenance-Free:** The sealed AGM (Absorbed Glass Mat) design eliminates the need for water additions and prevents acid spills, offering maximum convenience.
- **Vibration Resistance:** Designed to be fifteen times more resistant to vibration compared to standard flooded batteries, enhancing durability.
- **Longer Life:** Engineered for up to three times longer life than standard flooded batteries.
- **Faster Recharging:** Capable of faster recharging, reducing downtime.
- **Versatile Mounting:** Completely non-spillable, allowing for mounting in various positions.



Image 3.1: Diagram illustrating OPTIMA's SpiralCell Technology with pure lead plates and absorbent glass-mat separators.

**TRACK  
TESTED.  
DRIVER  
TRUSTED.**



**15X**  
MORE VIBRATION  
RESISTANCE

  
MEETS HIGH  
ELECTRICAL DEMANDS

**3X**  
LONGER  
LIFE

Image 3.2: Visual representation of key OPTIMA battery benefits.

## 4. SPECIFICATIONS

| Specification            | Value                                          |
|--------------------------|------------------------------------------------|
| Voltage                  | 12-Volt                                        |
| Cold Cranking Amps (CCA) | 800 CCA                                        |
| C20 Capacity             | 50 AH                                          |
| Reserve Capacity         | 100 minutes                                    |
| Dimensions (L x W x H)   | 10.06" x 6.94" x 7.88" (254mm x 175mm x 200mm) |
| Weight                   | 38.8 pounds                                    |

| Specification   | Value                             |
|-----------------|-----------------------------------|
| Terminal Type   | Dual SAE & GM Posts               |
| Number of Cells | 6                                 |
| Model Number    | 34/78 (OEM Part Number: 8004-003) |



Image 4.1: Front view of the OPTIMA 34/78 RedTop Battery, showing terminal configuration.

## 5. SETUP AND INSTALLATION

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

### 5.1 Pre-Installation Checks

- Verify that the OPTIMA 34/78 RedTop battery is the correct size and type for your vehicle.
- Inspect the battery for any signs of damage. Do not install a damaged battery.
- Ensure your vehicle's ignition is off and all accessories are disconnected.

### 5.2 Removal of Old Battery

1. Locate the vehicle's battery.
2. Using an appropriate wrench, disconnect the negative (black, -) terminal cable first. Store it away from the battery.
3. Next, disconnect the positive (red, +) terminal cable.
4. Remove any battery hold-down clamps or straps.
5. Carefully lift and remove the old battery. Batteries are heavy; use proper lifting techniques or assistance.

### 5.3 Installation of New Battery

1. Clean the battery tray and terminal clamps to ensure good electrical contact.
2. Place the OPTIMA 34/78 RedTop battery into the battery tray, ensuring it is seated securely.
3. Secure the battery with hold-down clamps or straps.
4. Connect the positive (red, +) terminal cable first. Tighten securely.
5. Connect the negative (black, -) terminal cable last. Tighten securely.
6. Apply a thin layer of anti-corrosion grease to the terminals to prevent corrosion.

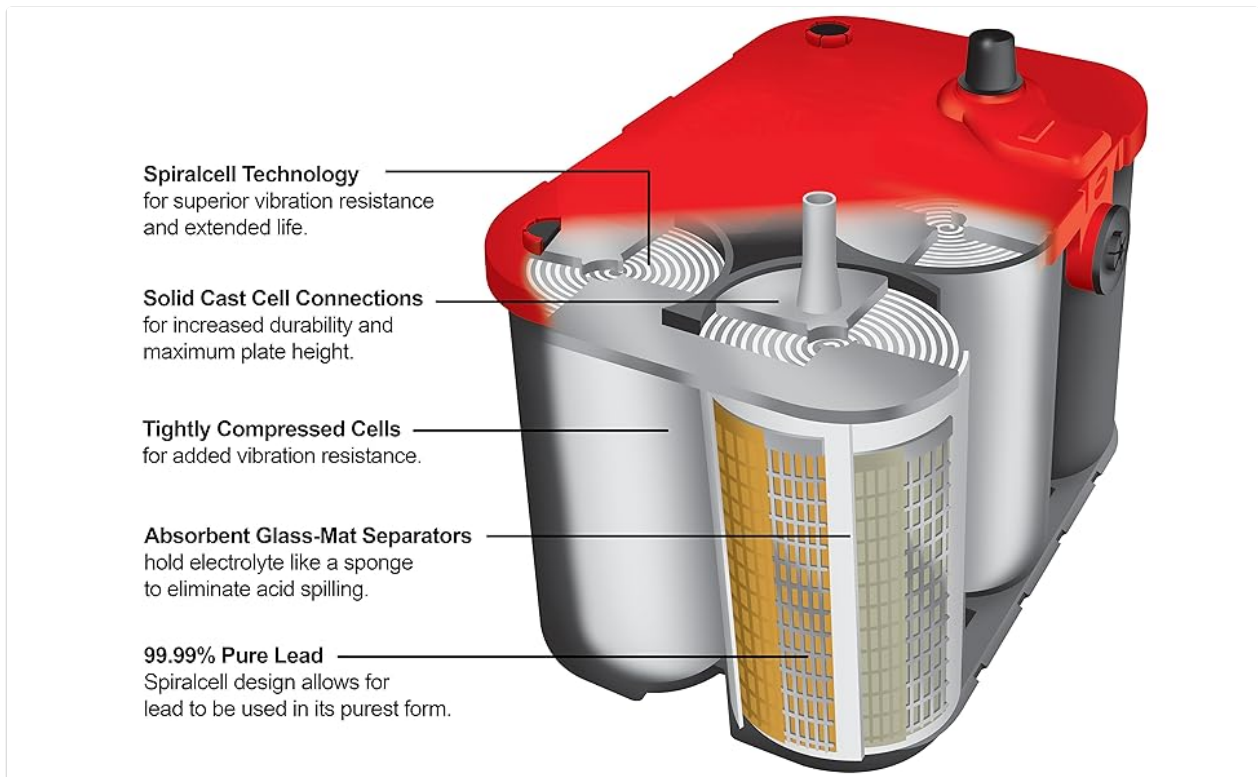


*Image 5.1: Side view of the OPTIMA 34/78 RedTop Battery, showing its compact design.*

## 6. OPERATING INSTRUCTIONS

The OPTIMA 34/78 RedTop battery is designed for starting applications, providing a powerful burst of energy to start your engine. Once installed, it operates as a standard automotive starting battery.

- Ensure all electrical connections are tight and free of corrosion for optimal performance.
- The battery's 800 CCA rating ensures reliable starting even in low temperatures.
- The 100-minute reserve capacity provides a safety margin for vehicle electrical systems.



*Image 6.1: OPTIMA RedTop Battery in a typical usage environment.*

## 7. MAINTENANCE

The OPTIMA RedTop battery is a sealed, maintenance-free AGM battery, meaning it does not require water additions or electrolyte level checks.

- **Terminal Cleaning:** Periodically inspect battery terminals for corrosion. If corrosion is present, disconnect the battery (negative first, then positive) and clean the terminals and cable clamps with a wire brush and a baking soda/water solution. Rinse with clean water and dry thoroughly before reconnecting.
- **Terminal Security:** Ensure battery cables are always securely fastened to the terminals. Loose connections can lead to poor performance and potential damage.
- **Battery Top:** Keep the top of the battery clean and dry to prevent current leakage.
- **Charging:** If the vehicle is stored for extended periods or experiences frequent short trips, occasional charging with a compatible AGM battery charger is recommended to maintain optimal charge and extend battery life. Avoid overcharging.

## 8. TROUBLESHOOTING

If you experience issues with your OPTIMA 34/78 RedTop battery, consider the following:

### 8.1 Engine Cranks Slowly or Not at All

- **Check Connections:** Ensure battery terminals and cable clamps are clean and tightly secured. Loose or corroded connections can impede current flow.
- **Battery Charge:** The battery may be discharged. Use a voltmeter to check the battery voltage. A fully charged 12V battery should read approximately 12.6V or higher. If low, charge the battery using an appropriate AGM charger.
- **Alternator/Charging System:** If the battery repeatedly discharges, have your vehicle's charging system (alternator, voltage regulator) inspected by a professional.

### 8.2 Lights Dim or Electrical Accessories Malfunction

- This often indicates a low battery charge. Follow the steps for checking battery charge and charging as described above.
- Inspect for any parasitic drains on the electrical system that might be discharging the battery when the vehicle is off.

For persistent issues, consult a professional automotive technician or OPTIMA customer support.

## 9. WARRANTY AND SUPPORT

For detailed warranty information regarding your OPTIMA 34/78 RedTop battery, please refer to the official warranty documentation provided with your purchase or visit the official OPTIMA website. Warranty terms and conditions may vary.

For technical assistance, product inquiries, or support, please contact OPTIMA customer service through their official channels. You can find more information and contact details on the [OPTIMA Brand Store](#).

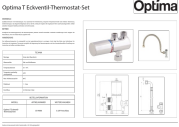
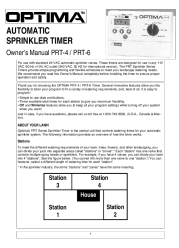
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### Related Documents - 34/78



#### [OPTIMA D200+ 12V Performance Maintainer User Guide](#)

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.

|                                                                                    |                                                                                                                                                                                                                                                                                                                                            |
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|   | <p><a href="#">OPTIMA D26AT User Manual: Storage and Disposal Guide</a></p> <p>Concise guide on storing and disposing of OPTIMA D26AT rechargeable devices, covering temperature, humidity, charging, and WEEE directive compliance.</p>                                                                                                   |
|   | <p><a href="#">Optima Automatic Sprinkler Timer PRT-4 / PRT-6 Owner's Manual</a></p> <p>Owner's manual for the Optima Automatic Sprinkler Timer PRT-4 / PRT-6, detailing installation, programming, and maintenance.</p>                                                                                                                   |
|  | <p><a href="#">OPTIMA Battery Product Catalog and Specifications   REDTOP, BLUETOP, YELLOWTOP</a></p> <p>Explore the full range of OPTIMA batteries, including REDTOP, BLUETOP, and YELLOWTOP series. This data sheet provides detailed specifications, part numbers, and performance metrics for each model, manufactured by CLARIOS.</p> |

Documents - OPTIMA – 34/78

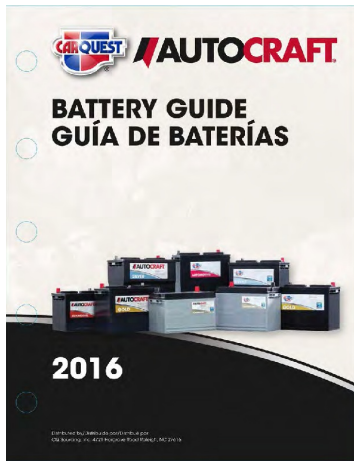


### [DieHard Battery Application Guide 2021](#)

Explore the comprehensive DieHard Battery Application Guide for 2021, detailing various battery types including Platinum AGM, Platinum, Gold, Silver, Red, and Value series. This guide provides specifications, features, and application information for automotive, heavy-duty, marine, powersports, and lawn & garden batteries. Learn about battery technology, maintenance, and performance to find the right DieHard battery for your needs.

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A comprehensive guide to CARQUEST and AutoCraft automotive, marine, and RV batteries, detailing product lines like OPTIMA, Platinum AGM, Flooded, Marine, and RV, along with key technologies such as PowerFrame and SpiralCell for enhanced performance and durability.

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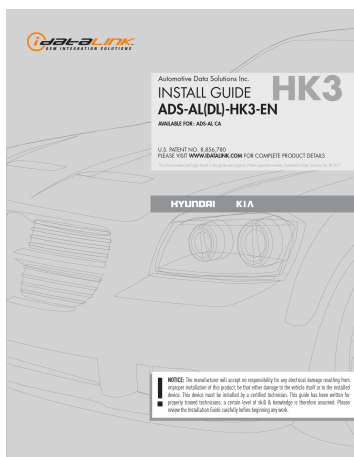


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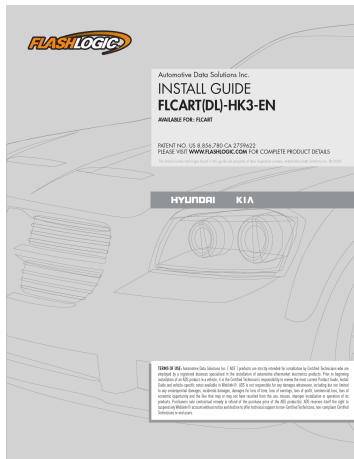


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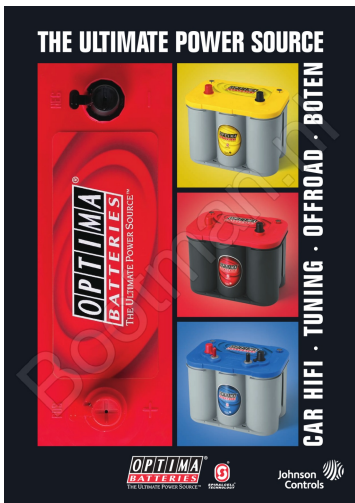


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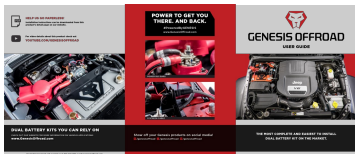


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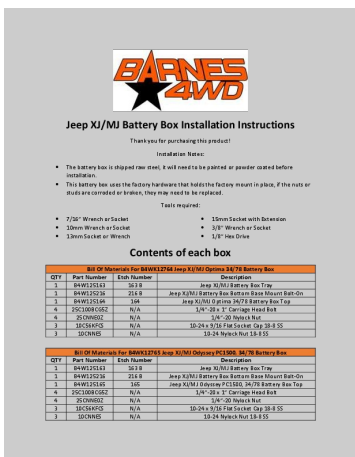
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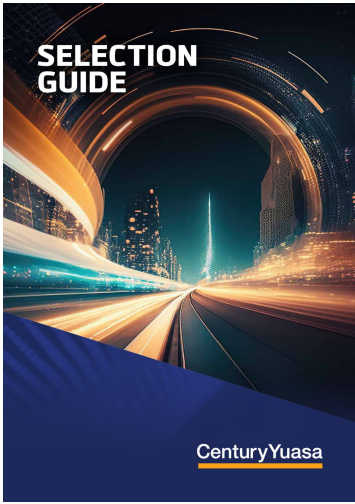


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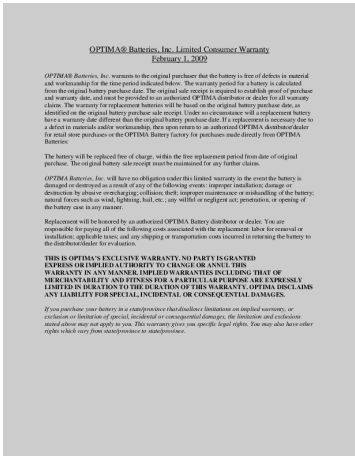
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Explore the Century Yuasa Selection Guide for high-quality batteries designed for New Zealand conditions. Find the right battery for cars, trucks, heavy equipment, marine, and more, with detailed specifications and expert advice from a leading supplier.

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OPTIMA Batteries, Inc. Limited Consumer Warranty February 1, 2009 OPTIMA Batteries, Inc. warrants to ... tributors/dealers to warranty to the original user battery used within the United States for models **34/78**, 78, 75/25, 25, 34, 34R, 35, 6V; the following Warranty: PERSONAL/NON-COMMERCIAL USE 36-MONTH ...

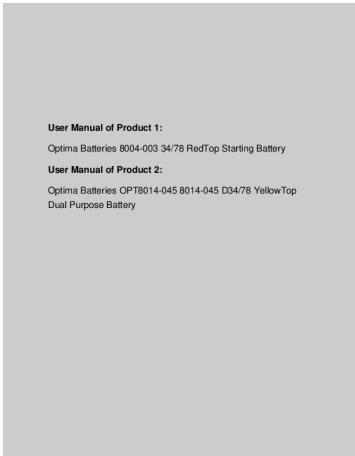
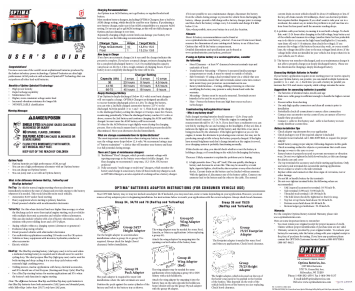
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[\[pdf\]](#) User Manual Guide

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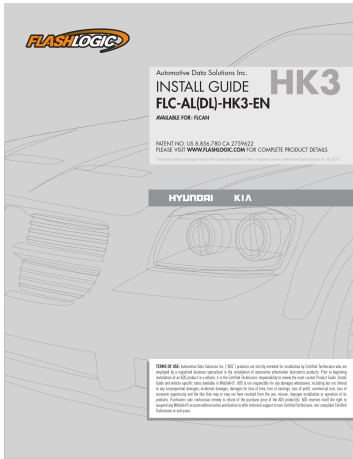


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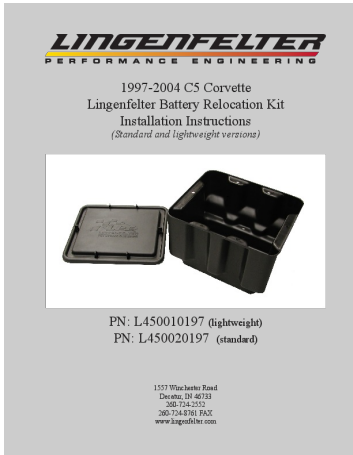
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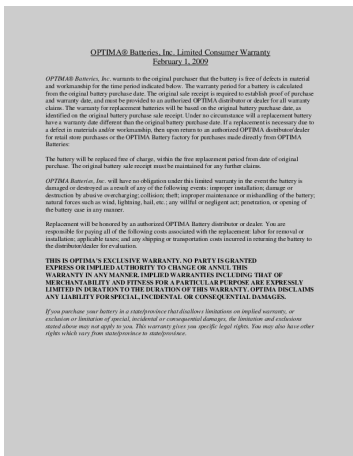
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OPTIMA Batteries, Inc. Limited Consumer Warranty February 1, 2009 OPTIMA Batteries, Inc. warrants to ... tributors/dealers to warranty to the original user battery used within the United States for models **34/78**, 78, 75/25, 25, 34, 34R, 35, 6V; the following Warranty: PERSONAL/NON-COMMERCIAL USE 36-MONTH ... lang:en score:19 filesize: 1.05 M page\_count: 7 document date: 2012-10-11



**Battery Model:** 34/78  
**Part Number:** 8004-003  
**Nominal Voltage:** 12 volts  
**NSN:** 6140-01-457-4339  
**Description:** High power, sealed lead acid, engine starting battery

**Physical Characteristics**

**Plate Design:** High purity lead-tin alloy, Wound cell configuration utilizing proprietary SPIRALCELL Technology  
**Electrolyte:** Sulfuric acid, H<sub>2</sub>SO<sub>4</sub>  
**Case:** Polypropylene  
**Color:** Dark Gray  
**Cover:** OPTIMA® Red  
**BCI Group:** BCI 34/78

|         | Standard | Metric                                  |
|---------|----------|-----------------------------------------|
| Length: | 10.631"  | 254 mm                                  |
| Width:  | 6.875"   | 174 mm                                  |
| Height: | 7.813"   | 199 mm (height at the top of terminals) |
| Weight: | 38.8 lb. | 17.6 kg                                 |

**Terminal Configuration:** D4E (D4) automotive and D4E eye-side terminal (D4E-181NC-28 threaded out).

**Performance Data**

**Open Circuit Voltage (fully charged):** 12.8 volts  
**Internal Resistance (fully charged):** 0.002 ohms  
**Capacity:** 80 Ah (C20)  
**Reserve Capacity:** 150 minutes (25 amp discharge, 80°F (26.7°C), to 10.5 volts cut-off)

**Power**

**CCA (30°C / 86°F):** 800 amps  
**MCA (0°C / 32°F):** 600 amps

**Recommended Charging**

**Model:** 34/78  
These batteries are designed for engine starting applications. They are not recommended or warranted for use in deep cycle applications.

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Battery Model: **34/78** Part Number: 8004-003 Nominal Voltage: 12 volts NSN: 6140 01 457 4339 Description: High power, sealed lead acid, engine starting battery  
Physical Characteristics: Plate Design: Electrolyte: Case: Color: Group Size: High purity lead-tin alloy. Wound cell configuration utilizin...

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**OPTIMA® RedTop U 4,2**

**Typenbezeichnung:** RT U 4,2  
**Bestell Nr.:** 804 250 000 888 2  
**Nennspannung:** 12 Volt  
**NSN (NATO Vertragsnummer):** 6140 01 457 4339  
**Bezeichnung:** Hochleistungs-SPIRALCELL®-Batterien  
**Herstellernummer:** 8004-003

**Physikalische Eigenschaften**

**Plattenkonstruktion:** Spiral- oder Zellen-Längslagerung, Wundzellenanordnung in positiverer SPIRALCELL®-Technologie.  
**Elektrolyt:** Schwefelsäure, H<sub>2</sub>SO<sub>4</sub>  
**Gehäuse:** Polypropylen  
**Farbe:** Dunkelgrau  
**Deckel:** OPTIMA® Rot  
**BCI Gruppe:** BCI 34/78

|          | Zoll     | Metrisch              |
|----------|----------|-----------------------|
| Länge:   | 10,631"  | 254 mm                |
| Breite:  | 6,875"   | 174 mm                |
| Höhe:    | 7,813"   | 199 mm (Höhe mit Pol) |
| Gewicht: | 38,8 lb. | 17,6 kg               |

**Terminale:** D4E (D4) Automotive und D4E Augen-Seiten-Terminal (D4E-181NC-28, Gewinde aus).

**Leistung:**

**Spannung (geladene Batterie):** 12,8 Volt  
**Innenwiderstand (geladene Batterie):** 0,002 Ohm  
**Reserve Kapazität:** 150 Minuten (25 A-Entladung bei 26,7°C bis 10,5 Volt Schlussspannung)

**Ladung:**

**Modell:** RT U 4,2  
Diese Batterien sind speziell für den Einsatz im Motorenantrieb. Sie sind NICHT für Anwendungen geeignet, die eine tiefe Entladung erfordern, wie zum Beispiel in der Telekommunikation oder in der stationären Stromversorgung.

[pdf] User Manual

34 78 qxd Battery Group nmadison Datenblatt DEOptima RedTop RT U 4 2 50Ah Autobatterie  
autobatterienbilligerOPTIMA 2autobatterienbilliger at mediafiles OPTIMA |||

OPTIMA RedTop U 4,2 Typenbezeichnung: RT U 4,2 Bestell Nr.: 804 250 000 888 2  
Nennspannung: 12 Volt ... Isure, H<sub>2</sub>SO<sub>4</sub> Gehäuse: Polypropylen Farbe: Kasten: Dunkelgrau Deckel: OPTIMA Rot BCI Gruppe: **34/78** Lnge: Breite: Hhe: Gewicht: Zoll 10 6.875 7.813 38.8 lb. Metrisch 254 mm 175 mm 200 mm ...

lang:de **score:19** filesize: 264.12 K page\_count: 2 document date: 2005-09-09



**Battery Model:** RT U 4,2  
**Part Number:** 804 250 000 888 2  
**Nominal Voltage:** 12 volts  
**NSN:** 6140-01-457-4339  
**Description:** High power, sealed lead acid, engine starting battery

**Physical Characteristics**

**Plate Design:** High purity lead-tin alloy, Wound cell configuration utilizing proprietary SPIRALCELL Technology  
**Electrolyte:** Sulfuric acid, H<sub>2</sub>SO<sub>4</sub>  
**Case:** Polypropylene  
**Color:** Dark Gray  
**Cover:** OPTIMA® Red  
**BCI Group:** BCI 34/78

|         | Standard | Metric                                      |
|---------|----------|---------------------------------------------|
| Length: | 10.631"  | 254 mm                                      |
| Width:  | 6.875"   | 174 mm                                      |
| Height: | 7.813"   | 199 mm (height at the top of the terminals) |
| Weight: | 38.8 lb. | 17.6 kg                                     |

**Terminal Configuration:** D4E (D4) automotive and D4E eye-side terminal (D4E-181NC-28, threaded out).

**Performance Data**

**Open Circuit Voltage (fully charged):** 12.8 volts  
**Internal Resistance (fully charged):** 0.002 ohms  
**Capacity:** 80 Ah (C20)  
**Reserve Capacity:** 150 minutes (25 amp discharge, 80°F (26.7°C), to 10.5 volts cut-off)

**Power**

**CCA (30°C / 86°F):** 815 amps  
**MCA (0°C / 32°F):** 600 amps

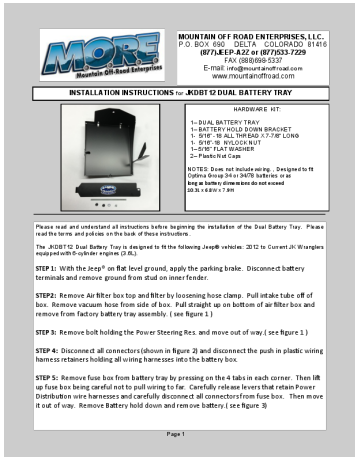
**Recommended Charging**

**Model:** RT U 4,2  
The following charging methods are recommended to ensure a long battery life (Always use a voltage regulated charger with voltage limits set as described below.)  
These batteries are designed for engine starting applications. They are not recommended or warranted for use in deep cycle applications.

[pdf]

34 78 qxd Battery Group nmadison OPTIMA RedTop RT U 4 2 en d26maze4pb6to3 cloudfront net  
optimabatteries 8313 8878 0811

OPTIMA RedTop U 4,2 Battery Model: RT U 4,2 Part Number: 804 250 000 888 2  
Nominal Voltage: 12 volts ... SPIRALCELL technology. Sulfuric acid, H<sub>2</sub>SO<sub>4</sub>  
Polypropylene Case: Dark Gray Cover: OPTIMA Red BCI: **34/78** Length: Width: Height: Weight: Standard 10 6.875 7.813 38.8 lb. Metric 254 mm 175 mm 200...  
lang:en **score:19** filesize: 634.31 K page\_count: 2 document date: 2008-02-08



[pdf] Instructions Dimension Guide

CodyH Dual Battery Tray Installation Instructions M O R E JKDBT12 is new 4494869134332368553 cdn shopify s files 1 0016 7850 8143 ||| MOUNTAIN OFF ROAD ENTERPRISES, LLC. P.O. BOX 690 DELTA COLORADO 81416 877 457 JEEP-A2Z or 877 533-7229 ... FLAT WASHER 2 Plastic Nut Caps NOTES: Does not include wiring. , Designed to fit Optima Group 34 or **34/78** batteries or as long as battery dimensions do not exceed 10.3L x 6.8W x 7.9H Please read and U... lang:en **score:19** filesize: 882.79 K page\_count: 6 document date: 2018-09-12



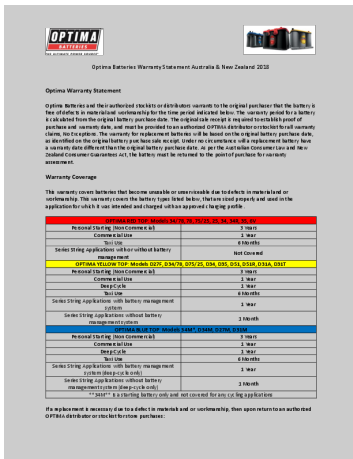
[pdf] User Manual

Manual SAMS 2022 LTH ENERGIZER 1 ENCUENTRA TU BATERÍA manual sams lth mx images banner contentimages ||| ENCUENTRA TU BATERA Identificando la siguiente informacin de tu vehculo: Marca Modelo Ao Batera reco ... 04-2022 1988-1995 1988-1995 1992-2004 1992-2001 1991-2012 2014-2018 2014-2018 RECOMENDADA 75/86 47 **34/78** 48/91 **34/78** 48/91 94R 94R 48/91 94R 99 34 75 34 42 65 94R 58 48/91 48/91 51R 24 75/86 24 24 34... lang:i-klngon **score:18** filesize: 1.25 M page\_count: 18 document date: 2023-02-07



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Manual SAMS 2022 LTH ENERGIZER 1 ENCUENTRA TU BATERÍA manual lth sams mx images banner contentimages ||| ENCUENTRA TU BATERA Identificando la siguiente informacin de tu vehculo: Marca Modelo Ao Batera reco ... 04-2022 1988-1995 1988-1995 1992-2004 1992-2001 1991-2012 2014-2018 2014-2018 RECOMENDADA 75/86 47 **34/78** 48/91 **34/78** 48/91 94R 94R 48/91 94R 99 34 75 34 42 65 94R 58 48/91 48/91 51R 24 75/86 24 24 34... lang:i-klngon **score:18** filesize: 1.04 M page\_count: 18 document date: 2023-01-19

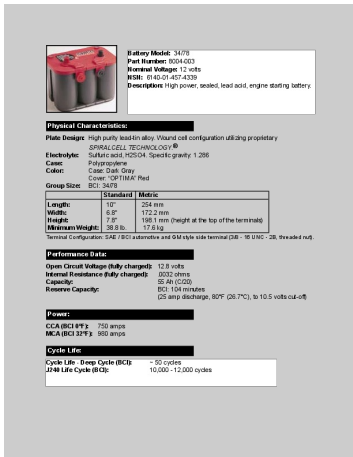


## [pdf] Warranty

Guy Locke Optima Batteries Warranty Statement Australia New Zealand The warranty for replacement batteries will be based on the original battery purchase date OPTIMA RED TOP Models 34 78 75 25 34R 35 6V Final 31052018 rjbatt au 2018 06 |||

Optima Batteries Warranty Statement Australia New Zealand 2018 Optima Warranty Statement Optima ... on for which it was intended and charged with an approved charging profile. OPTIMA RED TOP: Models **34/78**, 78, 75/25, 25, 34, 34R, 35, 6V Personal Starting Non Commercial 3 Years Commercial Use ...

lang:en **score:18** filesize: 157.17 K page\_count: 3 document date: 2018-06-06



## [pdf]

34 78 qxd Nicole Battery Model Part Number 8004 003 Nominal Voltage 12 volts NSN 6140 01 457 4339

Description High power sealed lead optima redtop 3478 batterymart files

Battery Model: **34/78** Part Number: 8004-003 Nominal Voltage: 12 volts NSN: 6140-01-457-4339 Description: High power, sealed, lead acid, engine starting battery.

Physical Characteristics: Plate Design: High purity lead-tin alloy. Wound cell configuration utilizing proprietary SPIRALCELL TECHNOLOGY....

lang:en **score:18** filesize: 71.6 K page\_count: 2 document date: 2001-06-14



## [pdf] User Manual

CT2000G Flow Fitness Support in your workout Life Manual flowfitness manual |||

Gebruiksaanwijzing / Manual www.flowfitness.nl Side Walk CT2000G Generator Handleiding Nederlands Manual English 3 - 31 32 - 64 Copyright Flow Fitness Alle rechten voorbehouden. Niets uit deze gebruiksaanwijzing mag worden gebruikt of gereproduceerd in welke vorm of op welke wijze dan ook z...

lang:nl **score:17** filesize: 4.46 M page\_count: 64 document date: 2015-08-10



[\[pdf\]](#) User Manual

Ólomzselés AGM 254 x 200 172 mm M5 csavaros csatlakozó Conrad adatlap 251876 olomakku v ah

000251876DS01 |||

Nennspannung: 12 Volt ... Isure, H2SO4 Gehäuse: Polypropylen Farbe: Kasten:

10 6.875 7.813 38.8 lb. Metrisch 254 mm 175 mm 200 mm ...

[\[pdf\]](#) Datasheet Safety Datasheet Label

Microsoft 2021 07 06 — Hazard Statements DANGER! Causes severe skin burns and eye damage

material safety data sheet sfvrsn c59130d5 8 sqlvawbi4pg46k2imi blob core windows net sf assets docs

OPT8040 218 D35 YellowTop Dual Purpose Health Household 81Br9ve 6UL m media amazon images I

## D34 78 AGM Car Truck SUV 750 CCA Terminal Maintenance Free Versatile Mounting Frustration

B000MS830E PackagingOPTIMA D31T And 900 PackagingPS NETSafety InformationSafety

harmfulPS SheetAmazon AutomotiveOPTIMA Householdmaterial 8material 1material 1m 6ULm

InformationOptima SDS8014045 HouseholdSafety Guysmaterial 8OPTIMA MSDSmaterial 6ULcdn

Safety Data Sheet 1. IDENTIFICATION Product Name: Sealed Lead Acid Battery/

Revision Date: 6/7/2021 9 of 10 Model Number **34/78** 34 34R 34VX 25 35 75/25 78

lang:en score:16 filesize: 384.36 K page\_count: 10 document date: 2021-06-07



[\[pdf\]](#)

Battery Model: **34/78** Part Number: 8004-003 Nominal Voltage: 12 volts NSN: 6140

Physical Characteristics: Plate Design: Electrolyte: Case: Color: Group Size: High

lang:en score:16 filesize: 97.52 K page\_count: 2 document date: 2009-04-23

**ENCUENTRA TU BATERÍA**

**Coppel**

**LOS VEHÍCULOS MÁS BUSCADOS**

| MODELO | AÑO       | IMP. 48 | IMP. 48 |
|--------|-----------|---------|---------|
| 1      | 2010-2011 | 48      | 48      |
| 2      | 2010-2011 | 48      | 48      |
| 3      | 2010-2011 | 48      | 48      |
| 4      | 2010-2011 | 48      | 48      |
| 5      | 2010-2011 | 48      | 48      |
| 6      | 2010-2011 | 48      | 48      |
| 7      | 2010-2011 | 48      | 48      |
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| 10     | 2010-2011 | 48      | 48      |
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| 12     | 2010-2011 | 48      | 48      |
| 13     | 2010-2011 | 48      | 48      |
| 14     | 2010-2011 | 48      | 48      |
| 15     | 2010-2011 | 48      | 48      |
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| 17     | 2010-2011 | 48      | 48      |
| 18     | 2010-2011 | 48      | 48      |
| 19     | 2010-2011 | 48      | 48      |
| 20     | 2010-2011 | 48      | 48      |
| 21     | 2010-2011 | 48      | 48      |
| 22     | 2010-2011 | 48      | 48      |
| 23     | 2010-2011 | 48      | 48      |
| 24     | 2010-2011 | 48      | 48      |
| 25     | 2010-2011 | 48      | 48      |
| 26     | 2010-2011 | 48      | 48      |
| 27     | 2010-2011 | 48      | 48      |
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| 30     | 2010-2011 | 48      | 48      |
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| 32     | 2010-2011 | 48      | 48      |
| 33     | 2010-2011 | 48      | 48      |
| 34     | 2010-2011 | 48      | 48      |
| 35     | 2010-2011 | 48      | 48      |
| 36     | 2010-2011 | 48      | 48      |
| 37     | 2010-2011 | 48      | 48      |
| 38     | 2010-2011 | 48      | 48      |
| 39     | 2010-2011 | 48      | 48      |
| 40     | 2010-2011 | 48      | 48      |
| 41     | 2010-2011 | 48      | 48      |
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| 43     | 2010-2011 | 48      | 48      |
| 44     | 2010-2011 | 48      | 48      |
| 45     | 2010-2011 | 48      | 48      |
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| 48     | 2010-2011 | 48      | 48      |
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| 71     | 2010-2011 | 48      | 48      |
| 72     | 2010-2011 | 48      | 48      |
| 73     | 2010-2011 | 48      | 48      |
| 74     | 2010-2011 | 48      | 48      |
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| 76     | 2010-2011 | 48      | 48      |
| 77     | 2010-2011 | 48      | 48      |
| 78     | 2010-2011 | 48      | 48      |
| 79     | 2010-2011 | 48      | 48      |
| 80     | 2010-2011 | 48      | 48      |
| 81     | 2010-2011 | 48      | 48      |
| 82     | 2010-2011 | 48      | 48      |
| 83     | 2010-2011 | 48      | 48      |
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| 86     | 2010-2011 | 48      | 48      |
| 87     | 2010-2011 | 48      | 48      |
| 88     | 2010-2011 | 48      | 48      |
| 89     | 2010-2011 | 48      | 48      |
| 90     | 2010-2011 | 48      | 48      |
| 91     | 2010-2011 | 48      | 48      |
| 92     | 2010-2011 | 48      | 48      |
| 93     | 2010-2011 | 48      | 48      |
| 94     | 2010-2011 | 48      | 48      |
| 95     | 2010-2011 | 48      | 48      |
| 96     | 2010-2011 | 48      | 48      |
| 97     | 2010-2011 | 48      | 48      |
| 98     | 2010-2011 | 48      | 48      |
| 99     | 2010-2011 | 48      | 48      |
| 100    | 2010-2011 | 48      | 48      |

**ENCUENTRA TU BATERÍA EN EL INTERIOR DE ESTE CATALOGO.**

[pdf]

Tabla de aplicaciones LTH 2019 cdn2 coppel wcsstore AuroraStorefrontAssetStore emarketing Manuales  
|||

ENCUENTRA BATERIA BCI 47 L-47-550 LOS VEHICULOS MS BUSCADOS  
MODELO CHEVROLET AVEO AVEO CHEVY CORSA ... 86 26R 75 34 42 41 47 65  
99 48/91 65 65 48/91 75/86 65 47 44B19 51R 51R 75/86 42 42 42 42 42 41 **34/78**  
**34/78** 48/91 42 42 41 41 - 42 - - MODELO KIA FORTE SPORTAGE SPORTAGE  
MAZDA CX-3 CX-5 NISSAN MA...  
lang:i-klngon **score:16** filesize: 361.17 K page\_count: 16 document date: 2019-09-20

[pdf] Datasheet

34 78 qxd Battery Group nmadison 1348730390 1Mπραρχία OPTIMA Red Top RTU 4 2 12V 50Ah  
815CCA EN e kiriazis gr1348730390 1e gr DOWNLOADS Misc 1 technische specificaties1348730390  
1Optima RT U Start Accu Service DreumelMπραρχία groptima rt u 42 1cdn webshopapp shops 307781  
files 351310169 optima specificatiese Optima Datasheettechnische 1OPTIMA RED TOP BATTERY 8004  
250 703 BCI RTU4 A Powerland co ukOptima grOPTIMA RedTop 2optima shopify s 0619 6428 8220 v  
1738322744cdn |||  
OPTIMA RedTop U 4,2 Battery Model: RT U 4,2 Part Number: 804 250 000 888 2  
Nominal Voltage: 12 volts ... SPIRALCELL technology. Sulfuric acid, H2SO4  
Polypropylene Case: Dark Gray Cover: OPTIMA Red BCI: **34/78** Length: Width:  
Height: Weight: Standard 10 6.875 7.813 38.8 lb. Metric 254 mm 175 mm 200...  
lang:en **score:16** filesize: 634.31 K page\_count: 2 document date: 2008-02-08

**MRU**

**OPTIMA7 biogas**

**USER MANUAL**

4102EN-BIO

[pdf] User Manual Declaration of Conformity

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any form print fotocopy Biogas MRU GmbH D 74172 Neckarsulm 12 78 2 About us 4102EN BIO  
OPTIMA7biogas fileadmin user upload files bedienungsanleitungen en Declaration conformity 5 79 |||  
OPTIMA7 biogas USER MANUAL 4102EN-BIO Producer: USER MANUAL OPTIMA7  
Biogas Legal notices / Intellectual property rights comments Original user manual  
2021 by MRU No part of this manual my be published in any form print, fotocopy,  
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lang:en **score:16** filesize: 2.73 M page\_count: 78 document date: 2021-06-08

**OPTIMA BATTERIES**

**THE ULTIMATE POWER SOURCE**

**FOR ULTIMATE PERFORMANCE**

[pdf]

OPTIMA Batteries REDTOP® Midstate BatteryMidstatebattery files Products Optima |||  
SPIRALCELL TECHNOLOGY. A BETTER CLASS OF BATTERY. OPTIMA batteries  
are the only batteries to offer ... NS / CAR AUDIO 36 MONTHS FREE  
REPLACEMENT 12 MONTHS FREE REPLACEMENT NOT COVERED MODEL #  
VOLTAGE **34/78** 12V 75/25 12V 25 12V 34 12V 34R 12V 35 12V 78 12V 6V 6V COLD  
CRANKING AMPS 0...  
lang:en **score:15** filesize: 1.54 M page\_count: 7 document date: 2014-09-17

Walmart

**ENCUENTRA TU BATERIA**

Identificando la siguiente información de tu vehículo:

- Marca
- Modelo
- Año
- Capacidad recomendada

También puedes escanear el código QR y obtener más información.

**LOS VEHÍCULOS MÁS BUSCADOS**

| MODELO               | Año       | Capacidad | Grupos |
|----------------------|-----------|-----------|--------|
| 1. Ford Focus        | 2012-2013 | 45        | 45     |
| 2. Chevrolet Cruze   | 2014-2015 | 45        | 45     |
| 3. Toyota Camry      | 2014-2015 | 45        | 45     |
| 4. Honda Civic       | 2014-2015 | 45        | 45     |
| 5. Nissan Altima     | 2014-2015 | 45        | 45     |
| 6. Hyundai Sonata    | 2014-2015 | 45        | 45     |
| 7. Kia Niro          | 2014-2015 | 45        | 45     |
| 8. Chevrolet Malibu  | 2014-2015 | 45        | 45     |
| 9. Toyota RAV4       | 2014-2015 | 45        | 45     |
| 10. Honda Accord     | 2014-2015 | 45        | 45     |
| 11. Nissan Versa     | 2014-2015 | 45        | 45     |
| 12. Hyundai Elantra  | 2014-2015 | 45        | 45     |
| 13. Kia Forte        | 2014-2015 | 45        | 45     |
| 14. Chevrolet Spark  | 2014-2015 | 45        | 45     |
| 15. Toyota Yaris     | 2014-2015 | 45        | 45     |
| 16. Honda Fit        | 2014-2015 | 45        | 45     |
| 17. Nissan Sentra    | 2014-2015 | 45        | 45     |
| 18. Hyundai Tucson   | 2014-2015 | 45        | 45     |
| 19. Kia Niro         | 2014-2015 | 45        | 45     |
| 20. Chevrolet Malibu | 2014-2015 | 45        | 45     |
| 21. Toyota RAV4      | 2014-2015 | 45        | 45     |
| 22. Honda Accord     | 2014-2015 | 45        | 45     |
| 23. Nissan Versa     | 2014-2015 | 45        | 45     |
| 24. Hyundai Elantra  | 2014-2015 | 45        | 45     |
| 25. Kia Forte        | 2014-2015 | 45        | 45     |
| 26. Chevrolet Spark  | 2014-2015 | 45        | 45     |
| 27. Toyota Yaris     | 2014-2015 | 45        | 45     |
| 28. Honda Fit        | 2014-2015 | 45        | 45     |
| 29. Nissan Sentra    | 2014-2015 | 45        | 45     |
| 30. Hyundai Tucson   | 2014-2015 | 45        | 45     |
| 31. Kia Niro         | 2014-2015 | 45        | 45     |
| 32. Chevrolet Malibu | 2014-2015 | 45        | 45     |
| 33. Toyota RAV4      | 2014-2015 | 45        | 45     |
| 34. Honda Accord     | 2014-2015 | 45        | 45     |
| 35. Nissan Versa     | 2014-2015 | 45        | 45     |
| 36. Hyundai Elantra  | 2014-2015 | 45        | 45     |
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| 38. Chevrolet Spark  | 2014-2015 | 45        | 45     |
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| 41. Nissan Sentra    | 2014-2015 | 45        | 45     |
| 42. Hyundai Tucson   | 2014-2015 | 45        | 45     |
| 43. Kia Niro         | 2014-2015 | 45        | 45     |
| 44. Chevrolet Malibu | 2014-2015 | 45        | 45     |
| 45. Toyota RAV4      | 2014-2015 | 45        | 45     |
| 46. Honda Accord     | 2014-2015 | 45        | 45     |
| 47. Nissan Versa     | 2014-2015 | 45        | 45     |
| 48. Hyundai Elantra  | 2014-2015 | 45        | 45     |
| 49. Kia Forte        | 2014-2015 | 45        | 45     |
| 50. Chevrolet Spark  | 2014-2015 | 45        | 45     |
| 51. Toyota Yaris     | 2014-2015 | 45        | 45     |
| 52. Honda Fit        | 2014-2015 | 45        | 45     |
| 53. Nissan Sentra    | 2014-2015 | 45        | 45     |
| 54. Hyundai Tucson   | 2014-2015 | 45        | 45     |
| 55. Kia Niro         | 2014-2015 | 45        | 45     |
| 56. Chevrolet Malibu | 2014-2015 | 45        | 45     |
| 57. Toyota RAV4      | 2014-2015 | 45        | 45     |
| 58. Honda Accord     | 2014-2015 | 45        | 45     |
| 59. Nissan Versa     | 2014-2015 | 45        | 45     |
| 60. Hyundai Elantra  | 2014-2015 | 45        | 45     |
| 61. Kia Forte        | 2014-2015 | 45        | 45     |
| 62. Chevrolet Spark  | 2014-2015 | 45        | 45     |
| 63. Toyota Yaris     | 2014-2015 | 45        | 45     |
| 64. Honda Fit        | 2014-2015 | 45        | 45     |
| 65. Nissan Sentra    | 2014-2015 | 45        | 45     |
| 66. Hyundai Tucson   | 2014-2015 | 45        | 45     |
| 67. Kia Niro         | 2014-2015 | 45        | 45     |
| 68. Chevrolet Malibu | 2014-2015 | 45        | 45     |
| 69. Toyota RAV4      | 2014-2015 | 45        | 45     |
| 70. Honda Accord     | 2014-2015 | 45        | 45     |
| 71. Nissan Versa     | 2014-2015 | 45        | 45     |
| 72. Hyundai Elantra  | 2014-2015 | 45        | 45     |
| 73. Kia Forte        | 2014-2015 | 45        | 45     |
| 74. Chevrolet Spark  | 2014-2015 | 45        | 45     |
| 75. Toyota Yaris     | 2014-2015 | 45        | 45     |
| 76. Honda Fit        | 2014-2015 | 45        | 45     |
| 77. Nissan Sentra    | 2014-2015 | 45        | 45     |
| 78. Hyundai Tucson   | 2014-2015 | 45        | 45     |
| 79. Kia Niro         | 2014-2015 | 45        | 45     |
| 80. Chevrolet Malibu | 2014-2015 | 45        | 45     |
| 81. Toyota RAV4      | 2014-2015 | 45        | 45     |
| 82. Honda Accord     | 2014-2015 | 45        | 45     |
| 83. Nissan Versa     | 2014-2015 | 45        | 45     |
| 84. Hyundai Elantra  | 2014-2015 | 45        | 45     |
| 85. Kia Forte        | 2014-2015 | 45        | 45     |
| 86. Chevrolet Spark  | 2014-2015 | 45        | 45     |
| 87. Toyota Yaris     | 2014-2015 | 45        | 45     |
| 88. Honda Fit        | 2014-2015 | 45        | 45     |
| 89. Nissan Sentra    | 2014-2015 | 45        | 45     |
| 90. Hyundai Tucson   | 2014-2015 | 45        | 45     |
| 91. Kia Niro         | 2014-2015 | 45        | 45     |
| 92. Chevrolet Malibu | 2014-2015 | 45        | 45     |
| 93. Toyota RAV4      | 2014-2015 | 45        | 45     |
| 94. Honda Accord     | 2014-2015 | 45        | 45     |
| 95. Nissan Versa     | 2014-2015 | 45        | 45     |
| 96. Hyundai Elantra  | 2014-2015 | 45        | 45     |
| 97. Kia Forte        | 2014-2015 | 45        | 45     |
| 98. Chevrolet Spark  | 2014-2015 | 45        | 45     |
| 99. Toyota Yaris     | 2014-2015 | 45        | 45     |
| 100. Honda Fit       | 2014-2015 | 45        | 45     |

[pdf] User Manual

Manual Walmart 2022 LTH AUTO DRIVE Jul 19 2023 — Q45 QX60 ISUZU PICK UP AUTOMÁTICA LEON FREETRACK REFERENCE 2015 2020 2021 2019 Consulta el manual de usuario para mayor k2 cf3fdbac 4db2 4c4d aca1 b736256e69c2 v1 i5 walmartimages dfw 3ccc2d91 2fc5 |||

ENCUENTRA TU BATERIA Identificando la siguiente informacin de tu vehculo: Marca Modelo Ao Batera reco ... 04-2022 1988-1995 1988-1995 1992-2004 1992-2001 1991-2012 2014-2018 2014-2018 RECOMENDADA 75/86 47 **34/78** 48/91 **34/78** 48/91 94R 94R 48/91 94R 99 34 75 34 42 65 94R 58 48/91 48/91 51R 24 75/86 24 24 34...

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**OPTIMA® RedTop U 4,2**

Typenbezeichnung: RT U 4,2  
Bestell Nr.: 804 250 000 888 2  
Nennspannung: 12 Volt  
Nennkapazität (20°C bei 25°C): 45 Ah  
Nennkapazität (20°C bei 25°C): 45 Ah  
Nennkapazität (20°C bei 25°C): 45 Ah

**Physikalische Eigenschaften:**

Plattenkonstruktion: Seltene Blei-Technologie, Weichelelektrolyt  
Elektrolyt: Gelsäure  
Gehäuse: Polypropylen  
Farbe: Dunkelgrau  
Deckel: OPTIMA® Rot  
BCI Gruppe: 45

| Größe   | Metrisch |
|---------|----------|
| Länge   | 254 mm   |
| Breite  | 175 mm   |
| Höhe    | 200 mm   |
| Gewicht | 17,5 kg  |

**Verwendung:**

Flüssigkeit (Gehäuse): 0,020 Liter  
Innenventil und Gehäuse: 0,020 Liter  
Reservekapazität: 110 Minuten  
Reservekapazität: 110 Minuten  
Reservekapazität: 110 Minuten

**Startleistung:**

Startleistung (20°C): 800 A  
Startleistung (20°C): 800 A  
Startleistung (20°C): 800 A

**Ladung:**

Die folgenden Ladekennlinien werden empfohlen um eine optimale Lebensdauer zu erreichen.  
(Voraussetzung: Die Batterie ist vollständig geladene Batterie mit dem folgenden Nennspannungswert)

Model: RT U 4,2  
Diese Batterie ist speziell für das Starten von Motoren entwickelt. Sie ist NICHT für Anwendungen geeignet, die mit einer Gasentwicklung verbunden sind, die zu einer Explosion oder anderen Schäden führen kann.

[pdf] User Manual

34 78 qxd nmadison Battery Group RTU 4 2 beltrona de media 63 74 71 1708424959 |||

OPTIMA RedTop U 4,2 Typenbezeichnung: RT U 4,2 Bestell Nr.: 804 250 000 888 2  
Nennspannung: 12 Volt ... Isure, H2SO4 Gehuse: Polypropylen Farbe: Kasten: Dunkelgrau Deckel: OPTIMA Rot BCI Gruppe: **34/78** Lnge: Breite: Hhe: Gewicht: Zoll 10 6.875 7.813 38.8 lb. Metrisch 254 mm 175 mm 200 mm ...

lang:de score:15 filesize: 224.62 K page\_count: 2 document date: 2018-01-30

**OPTIMA® RedTop**

**THE ULTIMATE POWER SOURCE**

**FOR ULTIMATE PERFORMANCE**

Optima Batteries carquestprofessionals 80 batteries

WARRANTY REDTOP THE ULTIMATE STARTING BATTERY 6V AND 12V PASSENGER VEHICLE / LIGHT TRUCK NON COMMERCIAL COMMERCIAL DEEP CYCLE APPLICATIONS / CAR AUDIO 36 MONTHS FREE REPLACEMENT 12 MONTHS FREE REPLACEMENT NOT COVERED MODEL # VOLTAGE **34/78** 12V 75/25 12V 25 12V 34 12V 34R 12V 35 12V ...

[pdf] Dimension Guide Warranty

OPTIMA Batteries carquestprofessionals 80 batteries

WARRANTY REDTOP THE ULTIMATE STARTING BATTERY 6V AND 12V PASSENGER VEHICLE / LIGHT TRUCK NON COMMERCIAL COMMERCIAL DEEP CYCLE APPLICATIONS / CAR AUDIO 36 MONTHS FREE REPLACEMENT 12 MONTHS FREE REPLACEMENT NOT COVERED MODEL # VOLTAGE **34/78** 12V 75/25 12V 25 12V 34 12V 34R 12V 35 12V ...

lang:de score:15 filesize: 1.53 M page\_count: 6 document date: 2014-10-23

**Hold Down and Height Adapters**

**OPTIMA GROUP 75/25**  
The OPTIMA 75/25 battery may be shipped with a height adapter installed. It may be needed in one of 2 ways for installation:

1. In vehicles with a top hold-down where more height is required, it should be used in its original position.
2. In some Ford, Lincoln, and Mercury installations (requiring a group 65 battery) the bottom hold-down of the battery must be made wider. For these installations, remove the adapter and attach the two side adapters which are included inside. Snap these strips into the openings on either side of the battery base and discard the remainder. If the adapter is not needed for installation, it may be discarded.

**OPTIMA GROUP 34/78**  
The wing adapters available for the OPTIMA 34/78 may be needed for some Ford, Lincoln, or Mercury applications (requiring a group 45). Attach these wing adapters by snapping into the openings on either side of the battery base.

**OPTIMA GROUP 75/25**  
The optional push adapter is required for most GM installations where the side terminals are positioned the push against the center cylinder of the battery and bolt to the battery tray as shown.

**OPTIMA GROUP 34/78**  
The optional rail or wing height adapters may be used for installations where a group 24 is required. Place the battery securely on top of the adapter until the clips snap into place.

**Optima Group 75/25/35**  
The wing adapters are attached to the ends of the battery to provide a hold down area for GM applications. Attach the wing adapters by snapping them into the openings on either end of the battery.

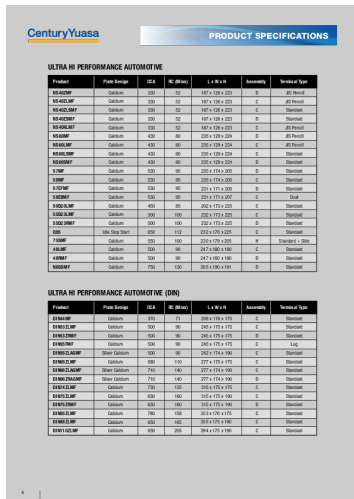
Find more Optima products on our website. Looking for replacement starting and charging? Visit our website.

[pdf]

Optima Replacement Starting Charging Parts Product Information replacement starting and charging parts starters alternators battery batteries agm cranking hybrid trays connectors CARiD hold down adapter product information images carid optima info |||

Hold Down and Height Adapters OPTIMA GROUP 75/25 The OPTIMA 75/25 battery may be shipped with a heig ... card the remainder.If the adapter is not needed for installation, it may be discarded. OPTIMA GROUP **34/78** The wing adapters available for the OPTIMA **34/78** may be needed for some Ford, Lincoln, or Merc...

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JohnT OPTIMA SPEC SHEET batteryxchange 2020 05 SUGGESTED CUSTOMER PRICES ALL  
QUOTED EXCHANGE View Specs Optima Battery X Change |||

lang:i-klingon score:14 filesize: 72.92 K page count: 1 document date: 2020-04-24

CYB Application Guide inab ULTRA HI PERFORMANCE AUTOMOTIVE Century Batteries PRODUCT  
SPECIFICATIONS 7 SEVERE SERVICE Product CCAPlate Design RC Mins L x W H Assembly Terminal  
Type H67 H68 HNS70 HNS70L HN70ZZ HN70ZZL H30CP AXD26R AXD31 800 DIN55LAGM

DIN66LAGM NZ Specs centurybatteries co nz content documents product specs |||

lang:nl score:14 filesize: 196.34 K page count: 6 document date: 2014-02-17

Hold Down and Height Adapters NET Framework OPTIMA™ GROUP 75 25 The OPTIMA battery may be shipped with a height adapter installed hold down sheet 66dff1e0 2809 4736 a0f0 b7f5346456da sfvrsn

505ee58f 0 sqlvawbi4pg46k2imi blob core windows net sf assets docs default source document library |||

lang:en score:14 filesize: 310.05 K page\_count: 1 document date: 2020-08-11



## [\[pdf\]](#) Accessories

THE ULTIMATE POWER SOURCE Optima yellow top team bhp forum attachments 4x4 technical 229687d1258455633 amaron optima can they used off roading |||

## THE ULTIMATE POWER SOURCE CAR HIFI TUNING 4x4 MARINE

APPLICATIONS Low internal resistance allo ... 851 187 000 888 2 317 325 218 238

158 165 12 975 75 155 26,5 YT S 4,2 YT U 4,2 BCI D34 BCI D**34/78** 812 254 000

888 2 814 254 000 888 2 245 245 254 254 173 173 200 200 172 172 175 ...

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## [\[pdf\]](#) Installation Guide Datasheet

OPTIMA COMMERCIAL DATASHEET cdn tayna datasheets |||

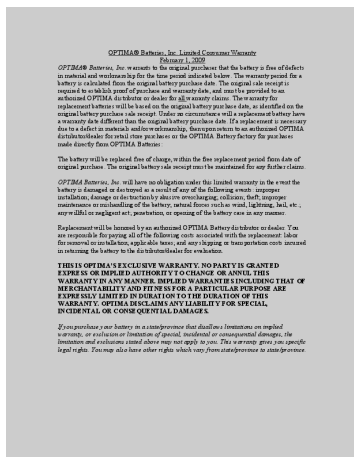
agriculture construction EQUIPMENT generators emergency vehicles CLEANING

OPTIMA YELLOWTOP DUA ... yellowtop YT S 5,5 yt r 5,0 YT S 4,2 YT U 4,2 YT R

3,7 BCI D31A bci d27f BCI D34 BCI D**34/78** BCI D35 YT S 2,7 YT S 2,7 J YT R 2,7

YT R 2,7 J BCI D51 DS46B24R BCI D51R BCI D51R ...

lang:en **score:14** filesize: 764.36 K page\_count: 6 document date: 2013-06-10



## [\[pdf\]](#) Warranty

OPTIMA Feb 2009 warranty detail rev1 Tyler McCallister here Battery recommendations DIYMobileAudio

Car Stereo Forum Optima Warranty optimabatteries media documents |||

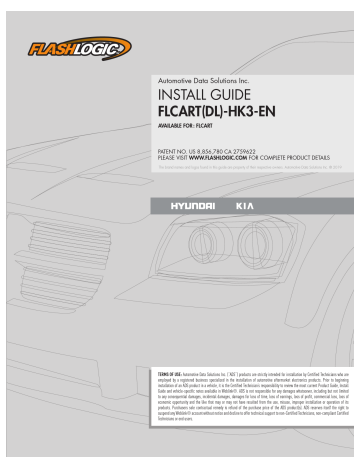
OPTIMA Batteries, Inc. Limited Consumer Warranty February 1, 2009 OPTIMA

Batteries, Inc. warrants to ... tributors/dealers to warranty to the original user battery

used within the United States for models **34/78**, 78, 75/25, 25, 34, 34R, 35, 6V; the

following Warranty: PERSONAL/NON-COMMERCIAL USE 36 MONTH ...

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## [\[pdf\]](#) Installation Guide Guide

ADS Inc FLCART DL HK3 EN 20190108 images idatalink 80 corporate Content Manuals |||

Automotive Data Solutions Inc. INSTALL GUIDE FLCART DL -HK3-EN AVAILABLE

FOR: FLCART Rev. Date: January 8, 2019 Doc. No.: ##57322## PATENT NO. US

8,856,780 CA 2759622 PLEASE VISIT WWW.FLASHLOGIC.COM FOR COMPLETE

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