

OPTIMA QUAD12

OPTIMA QUAD12 ORANGETOP Lithium Battery User Manual

Model: QUAD12

1. PRODUCT OVERVIEW

The OPTIMA QUAD12 ORANGETOP Lithium Battery is a high-performance powersports battery designed with advanced HYPERCORE LITHIUM Cell Technology. It features a built-in Engine Start Reserve (CPR) and a sophisticated Battery Management System (BMS) for optimal performance and longevity. The patented POWERLINK system provides convenient battery control, status monitoring, and charging capabilities.



Image 1.1: OPTIMA QUAD12 ORANGETOP Lithium Battery connected to its Powerlink cable.

This battery is engineered for broad fitment with quad terminals and includes necessary spacers for secure installation. It offers 380 Cranking Amps and a 4.5AH capacity, making it a reliable power source for various powersports applications.

2. SAFETY INFORMATION

Always prioritize safety when handling batteries. Failure to follow these instructions can result in serious injury or property damage.

- **Eye Protection:** Always wear appropriate eye protection when working with batteries.
- **Gloves:** Wear insulated gloves to prevent electrical shock and protect against chemical exposure.
- **Ventilation:** Ensure adequate ventilation in the work area.
- **No Smoking/Open Flames:** Keep sparks, flames, and smoking materials away from the battery.
- **Short Circuits:** Avoid short-circuiting battery terminals. Do not place metal objects on the battery.
- **Charging:** Use only chargers specifically designed for lithium iron phosphate (LiFePO₄) batteries. Using an incompatible charger can cause damage or fire.
- **Disposal:** Dispose of batteries according to local regulations. Do not incinerate.
- **Children:** Keep batteries out of reach of children.

3. PACKAGE CONTENTS

Verify that all components are present in the package before proceeding with installation.

- OPTIMA QUAD12 ORANGETOP Lithium Battery
- POWERLINK Cable with LED display
- Fitment Spacers (various sizes)
- Terminal Bolts and Nuts
- User Manual



Image 3.1: The complete package contents, including the battery, Powerlink cable, fitment spacers, and hardware.

4. SETUP AND INSTALLATION

Proper installation is crucial for the battery's performance and safety.

1. **Preparation:** Ensure the vehicle's ignition is off and disconnect the negative (-) terminal of the old battery first, followed by the positive (+) terminal. Remove the old battery.
2. **Fitment:** The QUAD12 features quad terminals for versatile installation. Use the provided fitment spacers to ensure a snug and secure fit in your battery tray. A loose battery can be damaged by vibration.
3. **Terminal Connection:** Connect the positive (+) terminal of the OPTIMA QUAD12 battery first, then the negative (-) terminal. Ensure connections are tight and secure using the provided hardware.
4. **POWERLINK Cable Installation:** Connect the POWERLINK cable to the designated port on the battery. This cable is essential for the battery's functionality, including the CPR feature and status display. Route the cable securely to an accessible location on your vehicle.



Image 4.1: The OPTIMA QUAD12 battery, designed with quad terminals for flexible installation.

5. OPERATION

The OPTIMA QUAD12 ORANGETOP Lithium Battery incorporates several advanced features for enhanced user experience.

5.1. POWERLINK System

The patented POWERLINK system provides a convenient connection for OPTIMA lithium-enabled maintainers and chargers. It also features a state-of-charge indicator, allowing you to monitor the battery's condition.



Image 5.1: The OPTIMA POWERLINK system provides convenient battery control, status, and charging.

5.2. OPTIMA CPR (Engine Start Reserve)

The OPTIMA CPR feature automatically disconnects the battery from parasitic key-off loads when the voltage drops below a critical level. This reserves enough power to start your vehicle, preventing you from being stranded. To activate the reserve, press the button on the POWERLINK cable.

5.3. Storage Mode

The POWERLINK system allows you to toggle the battery into storage mode. This feature helps prolong battery life by optimizing its state for long periods of inactivity. Consult the POWERLINK cable's instructions for specific steps to engage storage mode.

5.4. Battery Management System (BMS)

An advanced microprocessor-controlled BMS continuously monitors and controls all battery functions automatically. This includes balancing the state-of-charge of individual cells, protecting against overcharge, over-discharge, and over-current conditions, and managing temperature.



THE OPTIMA DIFFERENCE

Our game-changing POWERLINK system provides a convenient connection for our OPTIMA lithium-enabled maintainers and chargers. The system also features a state-of-charge indicator, so you can always know the condition of your battery and what, if any, action is needed to improve performance. Plus, with the ability to toggle into storage mode, your battery will last longer than the other guy's.

Image 5.2: Key advantages of the ORANGETOP battery, including its microprocessor-controlled management system and IP67 rating.

6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your OPTIMA QUAD12 battery.

- **Regular Inspection:** Periodically check battery terminals for corrosion and ensure connections are tight.
- **Cleaning:** Keep the battery clean and dry. Use a damp cloth to wipe down the exterior. Do not use solvents or harsh chemicals.
- **Charging:** If the battery requires charging, use only a charger compatible with lithium iron phosphate (LiFePO4) batteries. The POWERLINK cable provides a convenient charging port.
- **Storage:** For extended periods of inactivity, engage the battery's storage mode via the POWERLINK cable. Store the battery in a cool, dry place.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your OPTIMA QUAD12 battery.

Problem	Possible Cause	Solution
Vehicle does not start (no power)	Battery discharged below starting voltage.	Activate OPTIMA CPR via the POWERLINK cable button. If still no start, charge the battery.
POWERLINK LED display is off	POWERLINK cable not connected or faulty. Battery completely discharged.	Ensure POWERLINK cable is securely connected. If battery is completely discharged, it may require a specific recovery charge from a compatible charger.
Battery not holding charge	Parasitic draw from vehicle. Faulty charging system (regulator/rectifier). Battery fault.	Check vehicle for parasitic draws. Have vehicle's charging system inspected by a professional. Contact OPTIMA support if issues persist.
Battery appears physically damaged	Impact or improper handling.	Do not use a damaged battery. Contact OPTIMA support for assistance.

If you encounter issues not listed here or if solutions do not resolve the problem, please contact OPTIMA customer support.

8. SPECIFICATIONS

Feature	Specification
Brand	OPTIMA
Model Number	QUAD12
Technology	Lithium Iron Phosphate (LiFePO4)
Cranking Amps	380 CA

Feature	Specification
Capacity	4.5 AH
Nominal Voltage	12V
Item Weight	2.4 pounds
Product Dimensions (L x W x H)	5.24 x 2.72 x 3.66 inches
Terminals	Quad Terminal
Features	Built-in Engine Start Reserve (CPR), BMS, POWERLINK Cable, IP67 Rating
Replaces OEM Part Numbers	BTX9-BS, BTZ10S, BT12B-4, BT12A-BS, B14A-A2, B14L-A2, BT9B-4, BTX14AH, B14-A2, BTX14AH-BS, B14-B2, B12A-A, B9-B, B12AL-A, B14L-B2, B7C-A, B10L-B2, B10L-A2, B12AL-A2, BT12B-BS, B12C-A, B9L-B, 12N7D-3B, B10L-B, B14L-A1, B12A-B, B14A-A1, B10A-A2, B9A-A, BTX14AHL-BS, B7-A, 12N9-4B-1, SB14L-B2, B7L-B, BTX14AHL, 12N73BY, BTX9, YTX9-BS, YTZ10S, YT12B-4, YT12A-BS, YB14A-A2, YB14L-A2, YT9B-4, YTX14AH, YB14-A2, YTX14AH-BS, YB14-B2, YB12A-A, YB9-B, YB12AL-A, YB14L-B2, YB7C-A, YB10L-B2, YB10L-A2, YB12AL-A2, YT12B-BS, YB12C-A, YB9L-B, 12N7D-3B, YB10L-B, YB14L-A1, YB12A-B, YB14A-A1, YB10A-A2, YB9A-A, YTX14AHL-BS, YB7-A, 12N9-4B-1, YB14L-B2, YB7L-B, YTX14AHL, 12N7-3B, YTX9
UPC	721112916835






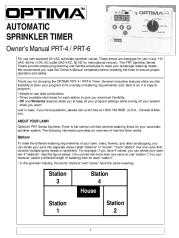

9. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the official OPTIMA Batteries website or contact their customer service directly. Keep your proof of purchase for warranty claims.

OPTIMA Batteries Contact Information:

Please visit www.optimabatteries.com for the latest support resources and contact details.

Related Documents - QUAD12

	<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>
 <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 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>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 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>

This document is the installation and user manual for the Optima Inverter Plus pool heat pump. It covers technical specifications, installation procedures, operation, maintenance, troubleshooting, and safety guidelines.

lang:en score:37 filesize: 1.15 M page count: 9 document date: 2023-06-08



CLARIOS

Safety Data Sheet

OPTIMA ORANGETOP LITHIUM BATTERY

1. IDENTIFICATION

Data on the product: Low voltage Lithium battery

Rechargeable Lithium-Ion battery pack

Clarion, LLC

5750 N. Green Bay Avenue

Planters Tower

Milwaukee, WI 53209 US

Contact: Industrial Hygiene & Safety Department

Telephone: 800-525-5222 ext. 2007

Emergency: CHEMTREC: 800-424-9300

(For US & Canada use only)

2. HAZARD(S) IDENTIFICATION

No hazards expected in case of an intact battery while observing the use instructions.

Lithium-Ion batteries contain organic electrolyte liquid. In the event of overcharging or damage to the unit, exposure to organic electrolyte undiluted is possible. Exposure and/or contact with organic electrolyte undiluted may lead to acute irritation of the skin, normal damage of the eyes and irritation of the mucous membranes of the eyes and upper respiratory system, including lungs.

For this reason, the following hazard symbols must be taken into account 1

Mandatory action sign M002: Refer to instruction manual/booklet

Prohibition sign P003: No Fire, No Smoking

Mandatory action sign M004: Use protective eyewear

Prohibition sign P036: No children allowed / Keep out of reach of children

Warning sign W023: Corrosive substances

Warning sign W022: Combustible and flammable materials

1) The hazard symbols correspond to GHS 0910. A meeting of the GHS 0910 regulation is not required.

Note: Do not clean batteries with dry cloth, use damp cloth, due to electrostatic charge.

PE with GHS 0910, OPTIMA ORANGETOP LP accumulators GHS standard

Version: 01.01 - Issue Date: 05/2023

003 US

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

OPTIMA ORANGETOP LP accumulators SDS Standard Claudia Orth Johnson Controls Inc lithium material data sheet sfvrsl 52bcec9c 1 useast2prodbrandsites blob core windows net optimabatteries sfassets prod docs default source user guides and manuals |||

Safety Data Sheet OPTIMA ORANGETOP LITHIUM BATTERY 1. IDENTIFICATION

Data on the product: Low voltag ... Current - Max via POWERLINKTM A Charging Current - Max continuous via terminals A QUAD7 3 30A **QUAD12** QUAD14 QUAD16 QUAD20 4.5 7 8 9 0F to 140F -18C to 60C 14F to 122F -10C to 50C 32F ... lang:en **score:32** filesize: 490.6 K page_count: 12 document date: 2023-07-12

CLARIOS

Safety Data Sheet

OPTIMA ORANGETOP LITHIUM BATTERY

1. IDENTIFICATION

Data on the product: Low voltage Li-Ion battery

Rechargeable Lithium-Ion battery pack with Lithium-Iron-Phosphate chemistry

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5750 N. Green Bay Avenue

Planters Tower

Milwaukee, WI 53209 US

Contact: Industrial Hygiene & Safety Department

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Version: 01.01 - Issue Date: 05/2023

003 US

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

LFP Chemistry Claudia Orth OPTIMA Lithium Material Safety Data SheetSupport optimabatteriesoptima lithium material safety data sheet 5 2025 2optima 2useast2prodbrandsites blob core windows net optimabatteries sfassets prod docs default source user guides and manuals optima 2 sfvrsl 9ce67ce8 1useast2prodbrandsites 1 |||

Safety Data Sheet OPTIMA ORANGETOP LITHIUM BATTERY 1. IDENTIFICATION

Data on the product: Low voltag ... ming the battery may lead to disassembly followed by eye, skin and throat irritation. Model QUAD7 **QUAD12** QUAD14 QUAD16 QUAD20 QUAD30 QH6 Capacity - Nominal Ah 3 Operating/Discharge Temperature... lang:en **score:31** filesize: 541.66 K page_count: 12 document date: 2025-05-07

Pioneer DJ

rekordbox™

LIGHTING mode Available Fixture List

[Pioneer DJ rekordbox Lighting Mode Available Fixture List](#)

A comprehensive list of available fixtures for Pioneer DJ's rekordbox software, specifically for its lighting mode. This guide details compatible lighting equipment for seamless integration and control. lang:tl **score:25** filesize: 2.81 M page_count: 584 document date: 2023-08-17

Pioneer Dj

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LIGHTING mode Available Fixture List

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[Pioneer DJ rekordbox Lighting Fixture List](#)

A comprehensive guide detailing lighting fixtures compatible with Pioneer DJ's rekordbox software for enhanced lighting control during DJ performances.

lang:tl **score:11** filesize: 2.82 M page_count: 587 document date: 2023-08-30

Pioneer Dj

rekordbox™

LIGHTING mode Available Fixture List

 **rekordbox**

[Pioneer DJ rekordbox LIGHTING Mode Available Fixture List](#)

Explore the comprehensive fixture library for Pioneer DJ's rekordbox software, detailing compatible lighting fixtures for the LIGHTING mode. Find brands and models from A to Z for enhanced DJ performances.

lang:tl **score:11** filesize: 2.82 M page_count: 588 document date: 2023-09-06

Pioneer Dj

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

FIXTURE LIBRARY lists rekordbox free to System Requirements Manual lighting available fixtures cdn files 20221209131238 |||

rekordbox™ LIGHTING mode Available Fixture List Contents 1 Support Functions
..... Mad Par Hex 6S IP Mini 7r Beam Moving Head Phantom Pixeltron
740 Phantom Pixelwash 1915 Radiant Par **Quad12** Radiant Par Tron7 2.12.9 Jobet
iPixel Bar 1825S iWash Bar 1815S LED Leko 3000II Zoom LED PinS...

lang:tl **score:11** filesize: 2.66 M page_count: 543 document date: 2022-12-07

Pioneer Dj

rekordbox™

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[rekordbox™ LIGHTING mode Available Fixture List - Pioneer DJ](#)

A comprehensive list of lighting fixtures compatible with Pioneer DJ's rekordbox™ software for Lighting mode. This guide details supported fixture types and provides an extensive catalog of available lighting equipment from various manufacturers.

lang:tl **score:11** filesize: 2.75 M page_count: 568 document date: 2023-05-10

Pioneer Dj

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[Pioneer DJ rekordbox Lighting Fixture Compatibility Guide](#)

A comprehensive guide detailing lighting fixtures compatible with Pioneer DJ's rekordbox software, listing manufacturers and models for DMX-controlled stage and event lighting.

lang:tl **score:11** filesize: 2.72 M page_count: 561 document date: 2023-03-24

Pioneer Dj

rekordbox™

LIGHTING mode Available Fixture List

 **rekordbox**

[Pioneer DJ rekordbox Lighting Mode: Available Fixture List](#)

Discover compatible lighting fixtures for Pioneer DJ's rekordbox software. This guide details numerous brands and models, enabling seamless synchronization of lighting effects with music for enhanced DJ performances and events.

lang:tl **score:11** filesize: 2.73 M page_count: 563 document date: 2023-04-05