

PulseTech XC-QL4

PulseTech QUADLINK XC-QL4 Instruction Manual

4-Channel Battery Charger Multiplier

Overview	Components	Setup	Operation	Maintenance	Troubleshooting	Specifications	Warranty
			& Support				

1. Product Overview

The PulseTech QUADLINK XC-QL4 is a versatile 4-in-1 charger multiplier designed to expand the capabilities of your existing 6V or 12V battery charger. It allows you to simultaneously maintain up to four batteries, transforming a single charger into a multi-station maintenance system. This device is ideal for maintaining large multiple battery packs, including 12-volt, 24-volt, 36-volt, and 48-volt configurations, during extended periods of non-use.

The QUADLINK utilizes PulseTech's patented Pulse Technology, which works to remove and prevent the buildup of lead-sulfate deposits on battery plates. This process helps to restore battery health, ensure stronger engine starts, and can extend battery life by up to three times. The unit features LED indicators that provide clear feedback on battery connection and charging status for each channel.



Image 1.1: The PulseTech QUADLINK XC-QL4 unit with its input cable and four output cables, each terminating in an SAE connector with eyelet lug adapters. This illustrates the complete setup for multi-battery maintenance.



Image 1.2: This graphic highlights key features of the PulseTech QUADLINK, such as extending battery life by up to three times, incorporating patented Pulse Technology, and its compatibility with the Xtreme Charge XC400. It also notes its ability to maintain up to four 12V lead-acid batteries automatically.

2. What's Included

The PulseTech QUADLINK XC-QL4 package includes the following components:

- One (1) QUADLINK 4-station charger multiplier unit
- Four (4) Eyelet lug adapter cables
- Four (4) 5-foot extension leads

3. Setup Instructions

Follow these steps to set up your PulseTech QUADLINK XC-QL4:

1. **Connect Your Charger:** Connect your existing 6V or 12V battery charger to the input SAE connector of the QUADLINK unit. Ensure your charger uses a standard two-pin SAE connector for compatibility.
2. **Connect Extension Leads:** Attach the four 5-foot extension leads to the four output SAE connectors on the QUADLINK unit.
3. **Connect Eyelet Lug Adapters:** Connect the eyelet lug adapter cables to the ends of the 5-foot extension leads.
4. **Attach to Batteries:** Securely attach the eyelet lug adapters to the terminals of the batteries you wish to charge or maintain. Ensure correct polarity (red to positive, black to negative).
5. **Verify Connection:** Once connected, the LED lights on the QUADLINK unit will indicate a proper battery connection and charging status.



Image 3.1: This image demonstrates the ease of connecting the PulseTech QUADLINK. It shows a battery with alligator clips attached, representing a typical battery connection setup. The text 'PLUG AND PLAY' emphasizes the simple installation process.



Image 3.2: This image illustrates the complete setup of the PulseTech multi-battery charging system, featuring the Xtreme Charge XC400 connected to the QUADLINK XC-QL4. This combination allows for the simultaneous charging and maintenance of up to four batteries.



Image 3.3: This image provides a detailed view of the standard two-pin SAE connector, which is used to connect the PulseTech QUADLINK to a battery charger and to the battery cables. This type of connector ensures secure and reliable connections.

4. Operating Instructions

The PulseTech QUADLINK XC-QL4 operates by distributing the charge from a single battery charger to up to four

connected batteries. It is designed for maintenance charging, ensuring batteries remain at optimal charge levels during periods of storage or infrequent use.

- **Automatic Operation:** Once properly connected to your charger and batteries, the QUADLINK automatically manages the charging process for each connected battery.
- **LED Indicators:** Each channel on the QUADLINK unit has an LED light. These LEDs indicate the connection status and whether the battery is actively being charged or maintained. Refer to the specific LED behavior in the troubleshooting section for detailed status interpretations.
- **Multi-Battery Pack Maintenance:** The QUADLINK can maintain large multiple battery packs, including those configured as 12-volt, 24-volt, 36-volt, and 48-volt systems. Ensure that each individual battery in the pack is connected to a separate channel of the QUADLINK.

MILITARY TRUSTED:

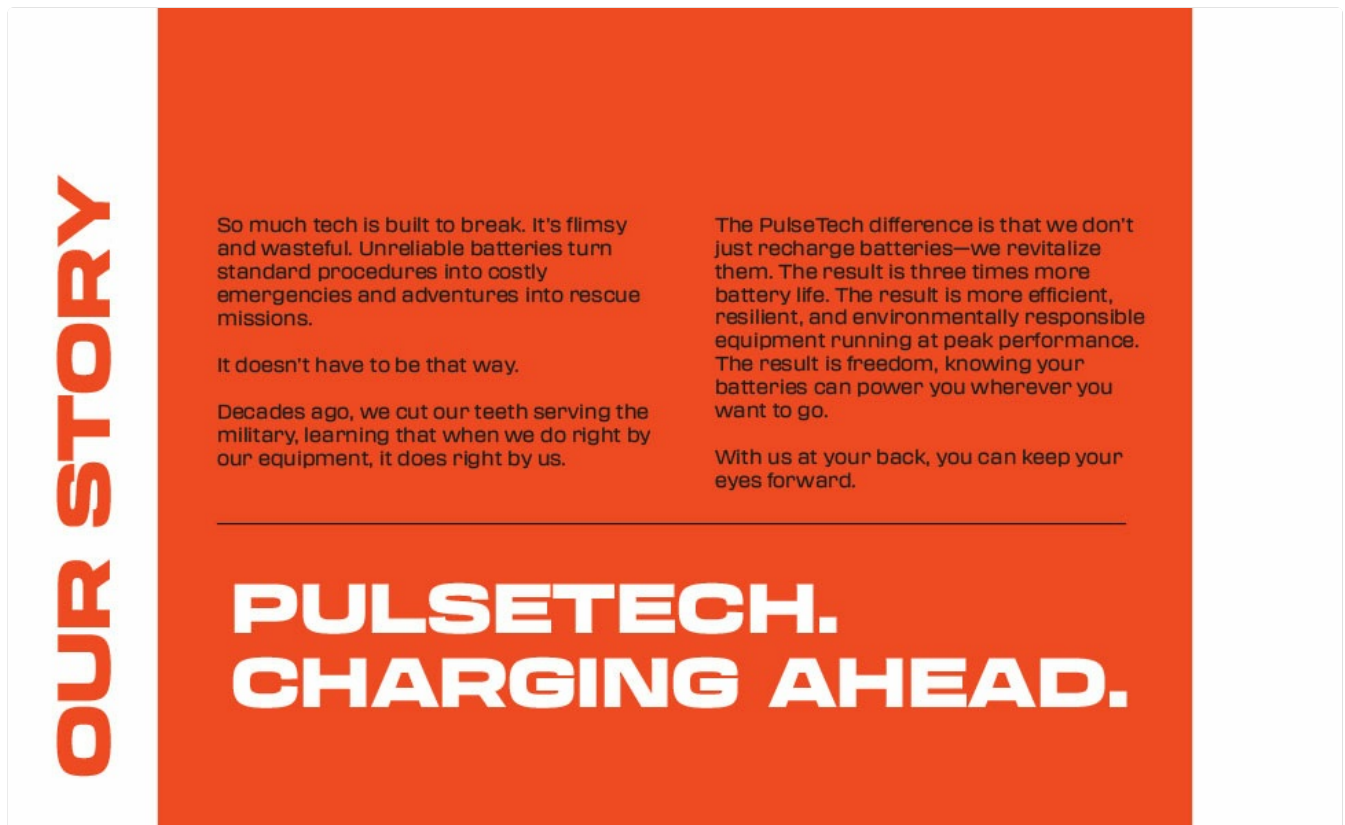
PulseTech is
the brand trusted
by the US military



PulseTech™

Image 4.1: This diagram illustrates how the PulseTech QUADLINK can be used to maintain multiple batteries in series, forming 24-volt, 36-

volt, and 48-volt systems. It shows the QUADLINK connected to different battery bank configurations, highlighting its versatility for various applications.



OUR STORY

So much tech is built to break. It's flimsy and wasteful. Unreliable batteries turn standard procedures into costly emergencies and adventures into rescue missions.

It doesn't have to be that way.

Decades ago, we cut our teeth serving the military, learning that when we do right by our equipment, it does right by us.

The PulseTech difference is that we don't just recharge batteries—we revitalize them. The result is three times more battery life. The result is more efficient, resilient, and environmentally responsible equipment running at peak performance. The result is freedom, knowing your batteries can power you wherever you want to go.

With us at your back, you can keep your eyes forward.

**PULSETECH.
CHARGING AHEAD.**

Image 4.2: This image illustrates the wide range of applications for the PulseTech QUADLINK, showing it connected to batteries in an ATV, a lawnmower, a car, and a motorcycle, all within a garage setting. This demonstrates its versatility for different types of vehicles and equipment.

5. Maintenance

The PulseTech QUADLINK XC-QL4 is designed for minimal maintenance. To ensure optimal performance and longevity of the unit:

- **Cleaning:** Periodically wipe the unit and cables with a clean, dry cloth to remove dust and debris. Do not use harsh chemicals or abrasive cleaners.
- **Storage:** When not in use, store the QUADLINK in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Cable Inspection:** Regularly inspect all cables and connectors for any signs of damage, fraying, or corrosion. Replace any damaged components immediately to prevent electrical hazards.

RECOVER & MAINTAIN UP TO 4 BATTERIES

WORKS ON ALL 6V & 12V BATTERY CHARGERS

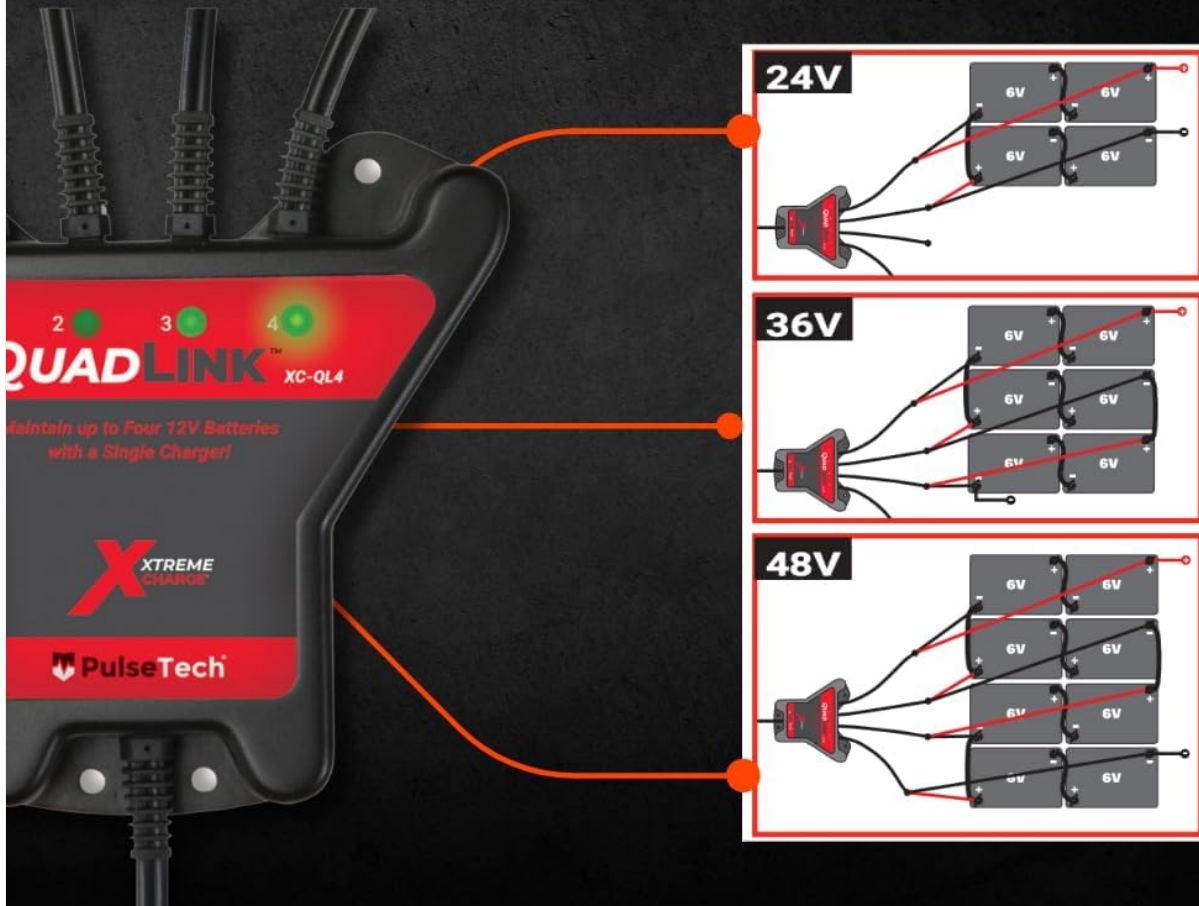


Image 5.1: This image explains the benefit of Pulse Technology in removing sulfate accumulation from battery plates, which helps ensure peak performance and extends battery life. A detailed view of the SAE connector is also shown, indicating the connection type.

6. Troubleshooting

If you encounter issues with your PulseTech QUADLINK XC-QL4, refer to the following common problems and solutions:

- **No LED Lights / Unit Not Functioning:**
 - **Verify Power Source:** The QUADLINK is a multiplier and requires an external 6V or 12V battery charger to operate. Ensure your primary charger is plugged in and functioning correctly. The QUADLINK does not have its own power supply.
 - **Check Connections:** Ensure all SAE connections are secure and properly seated. Verify that the input cable from your charger is firmly connected to the QUADLINK, and the output cables are firmly connected to the batteries.
 - **Battery Polarity:** Confirm that the eyelet lug adapters are connected with correct polarity to the battery terminals (red to positive, black to negative).

- **One or More Channels Not Indicating Charge:**

- **Check Individual Battery Connection:** Ensure the specific battery's connection to the QUADLINK channel is secure and has correct polarity.
- **Inspect Cables:** Check the individual extension lead and eyelet lug adapter for any visible damage or breaks.
- **Battery Condition:** The battery connected to the non-functioning channel might be severely discharged or faulty. Attempt to charge the battery directly with your primary charger to confirm its condition.

- **Unit Stopped Working After Some Time:**

- **Review Primary Charger:** Ensure your primary battery charger is still operational. If the primary charger fails, the QUADLINK will cease to function.
- **Environmental Factors:** Ensure the unit has not been exposed to extreme conditions (e.g., excessive heat, water immersion) that could cause damage.
- **Contact Support:** If the issue persists after checking the above, contact PulseTech customer support for further assistance.

7. Specifications

Feature	Specification
Model Number	XC-QL4
Product Dimensions	10.5 x 9.5 x 3.3 inches
Item Weight	2.38 pounds (1.08 Kilograms)
Input Voltage	12 Volts (from external charger)
Output Voltage	12 Volts (DC)
Compatibility	6V or 12V battery chargers with standard two-pin SAE connector
Channels	4
Manufacturer	PulseTech







8. Warranty & Support

Specific warranty information for the PulseTech QUADLINK XC-QL4 is not provided within this manual. For details regarding product warranty, please refer to the documentation included with your purchase or visit the official PulseTech website.

For technical support, product inquiries, or warranty claims, please contact PulseTech directly:

- **PulseTech Official Store:** [Visit the PulseTech Store on Amazon](#)
- **User Guide (PDF):** A detailed user guide in PDF format may be available for download. Please check the product page or the manufacturer's website for the latest version.

Related Documents - XC-QL4

	<p>PulseTech Xtreme Charge XC400: 12V 4 Amp Battery Charger User Guide & Features</p> <p>Comprehensive guide to the PulseTech Xtreme Charge XC400, a 12V 4 Amp battery charger featuring patented Pulse Technology for conditioning and maintenance. Includes features, usage instructions, specifications, warranty information, and available accessories.</p>
	<p>PulseTech BMP-3 Kit: Extend Battery Life and ROI</p> <p>Discover the PulseTech BMP-3 Kit, a battery maintenance management program designed to recover, test, and charge 12-volt lead-acid batteries, extending their life by up to three times and improving return on investment.</p>
	<p>PulseTech Battery Maintenance Management Program Kit BMP-2: Fastest ROI</p> <p>Discover how the PulseTech Battery Maintenance Management Program Kit BMP-2 can help you recover up to 70% of your batteries, extending their life by up to three times and reducing costs. Learn about the SC-6 charger and 870PT tester.</p>
	<p>USMC Battery Maintenance Management Program (BMMP) Guide</p> <p>A comprehensive guide to the US Marine Corps Battery Maintenance Management Program (BMMP), detailing battery types, safety, diagnostics, maintenance, and PulseTech equipment for military applications.</p>
	<p>U.S. Army Battery Maintenance Management Program (BMMP) Guide</p> <p>An overview of the U.S. Army Battery Maintenance Management Program (BMMP), detailing battery types, maintenance procedures, common failure causes, diagnostic tools, and charging solutions provided by PulseTech to enhance military readiness and reduce costs.</p>
	<p>PulseTech Solar Installation Guide for Military Equipment</p> <p>Comprehensive installation guide and tips for PulseTech solar and AC powered battery maintainers, designed for US military vehicles and equipment. Learn about system benefits, installation steps, and troubleshooting.</p>