

## OPTIMA D200+

# OPTIMA D200+ Battery Maintainer and Lithium Charger User Manual

**Model:** D200+

**Brand:** OPTIMA

## INTRODUCTION

The OPTIMA D200+ is a 12V performance battery maintainer and charger designed for various battery types, including Lithium (LiFePO4), AGM, and standard Flooded batteries. This device offers advanced features such as a 4-color Charge Mode Status LED bar, a dual-function battery gauge, and selectable performance profiles to optimize battery life and performance. Its weatherproof construction and integrated cable management make it suitable for both portable and wall-mounted use.

This manual provides essential information for the safe and effective operation, setup, and maintenance of your OPTIMA D200+ charger.

## IMPORTANT SAFETY INFORMATION

**Read all instructions before using this product.**

- Always wear eye protection and protective clothing when working with batteries.
- Ensure adequate ventilation when charging batteries to prevent the accumulation of explosive gases.
- Never smoke or allow a spark or flame in the vicinity of a battery or engine.
- Connect and disconnect DC output clamps only after setting the charger switch to the OFF position and removing the AC cord from the electrical outlet.
- Do not expose the charger to rain or excessive moisture.
- Keep out of reach of children.
- Do not use the charger if it has received a sharp blow, been dropped, or otherwise damaged.

- Ensure the AC power cord is properly routed to prevent tripping hazards or damage.

## PRODUCT FEATURES

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The OPTIMA D200+ is equipped with several features designed for convenience and optimal battery care:

- **Multi-Battery Compatibility:** Supports Lithium (LiFePO4), AGM, and Flooded 12V batteries.
- **Integrated Cable Management:** Features a wrap for organized storage of AC and DC cables.
- **Dual-Use Body Design:** Allows for portable use or permanent wall mounting with the included bracket.
- **Advanced LED Indicators:** A 4-color LED bar displays charge mode status, alongside indicators for Connected, Power, and Check.
- **Dual-Function Battery Gauge:** Provides a pre-charge battery test and displays charging progress.
- **Energy Saver Auto Maintain Mode:** Monitors and maintains the battery at a full state of charge while minimizing AC power consumption.
- **Spark-Free Connection Technology:** Enhances safety during connection and disconnection.



Figure 1: OPTIMA D200+ Battery Maintainer with integrated cable management.



Figure 2: Close-up view of the D200+ LED display panel, showing Connected, Power, and Check indicators, along with the charge mode status bar.

## PACKAGE CONTENTS

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Verify that all items are present in the package:

- OPTIMA D200+ Battery Maintainer Unit
- Battery Clamps (Red and Black)
- Wall Organizer Bracket
- AC Power Cord



*Figure 3: The wall organizer bracket for convenient storage.*

## SETUP

### Connecting to a Battery

1. Ensure the OPTIMA D200+ is disconnected from AC power.
2. Connect the red positive (+) clamp to the positive (+) terminal of the battery.
3. Connect the black negative (-) clamp to the negative (-) terminal of the battery. For vehicle applications, if the battery is installed in the vehicle, connect the black negative (-) clamp to



the vehicle chassis or engine block away from the battery.

4. Once the clamps are securely connected, plug the AC power cord into a standard electrical outlet.

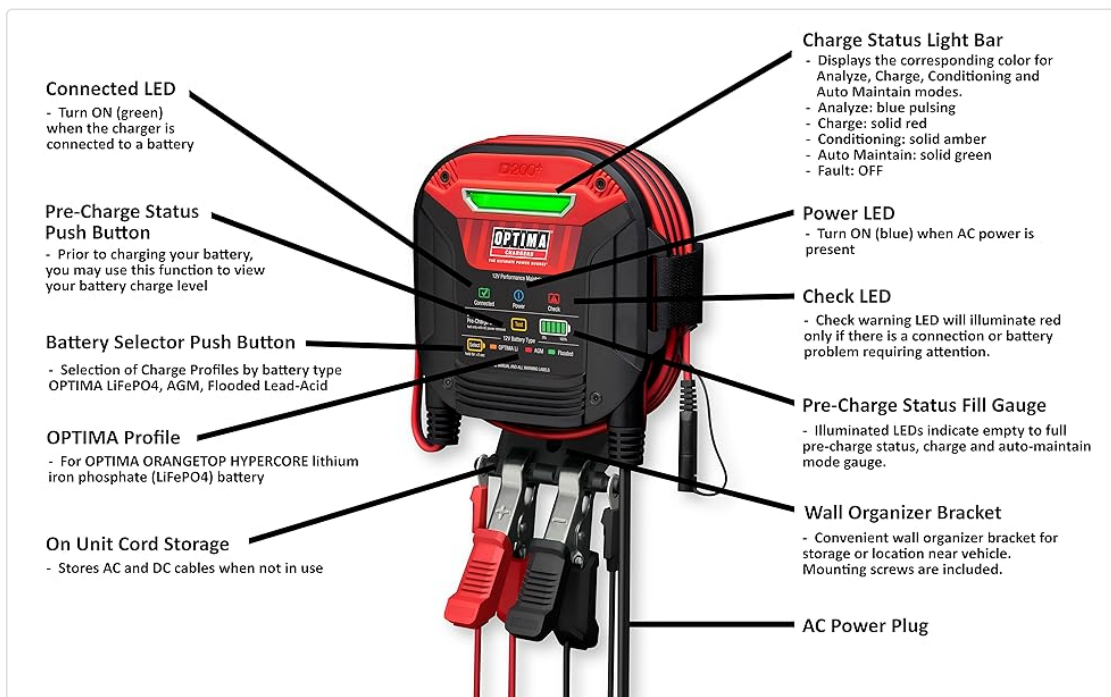


Figure 4: The D200+ connected to a battery in a vehicle.

## Wall Mounting (Optional)

The D200+ can be mounted using the provided wall organizer bracket. Secure the bracket to a suitable surface using appropriate mounting hardware (not included). The charger unit then slides into the bracket for secure storage.

## OPERATING INSTRUCTIONS

### Power On and Initial Status

Once connected to both the battery and AC power, the charger will power on. The "Power" LED will illuminate, and the "Connected" LED will turn green if the connection is successful.

### Battery Type Selection

The D200+ supports three battery types: OPTIMA LiFePO4, AGM, and Flooded. Press the "Select" button (located near the battery type indicators) to cycle through the options until the correct battery type is illuminated.



Figure 5: Indicators for OPTIMA Li, AGM, and Flooded battery types.

## Pre-Charge Battery Test

Before charging, you can perform a pre-charge battery test. Press the "Test" button to view the current battery charge level on the dual-function battery gauge. This gauge displays the charge percentage from 0% to 100%.

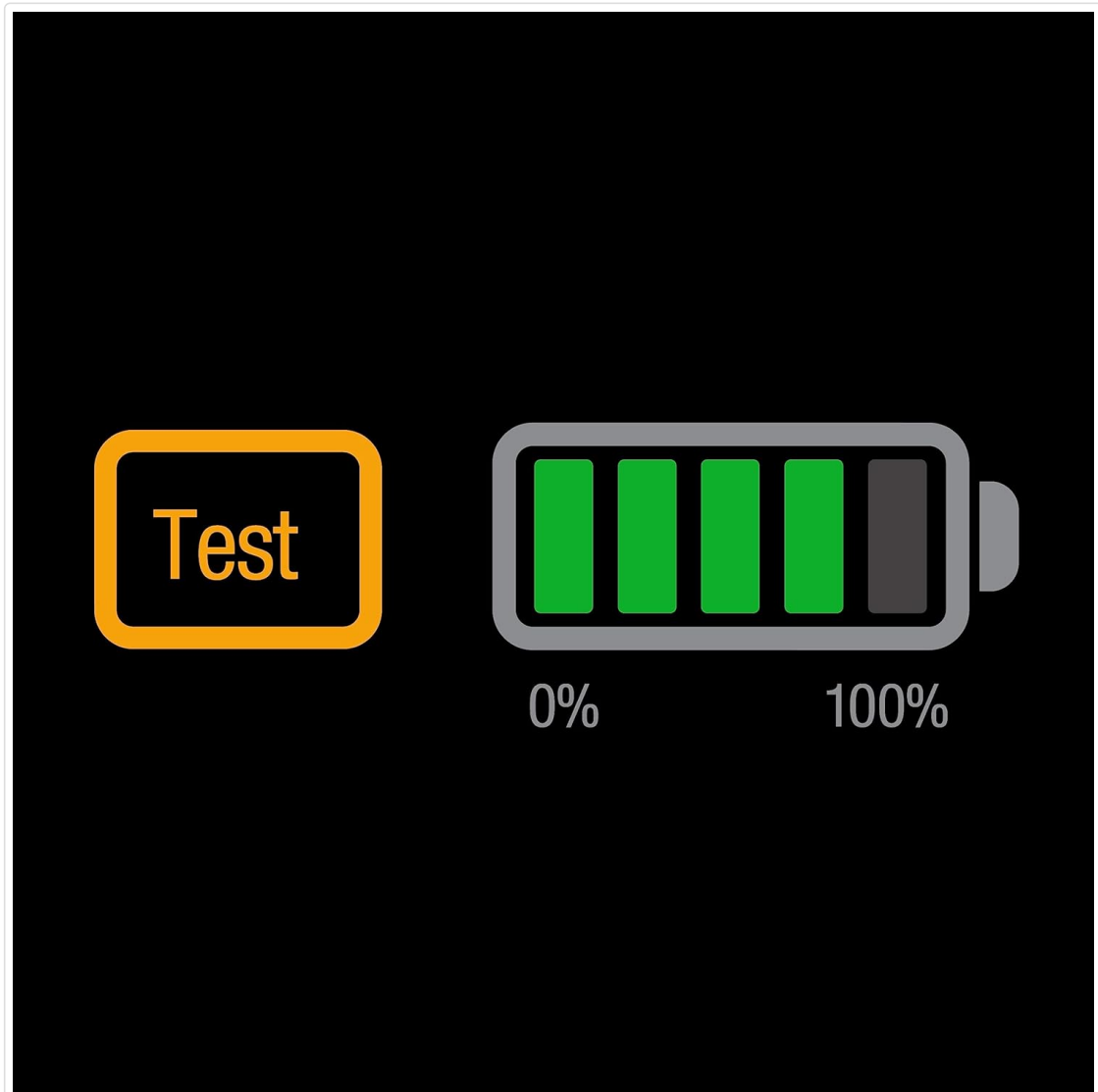


Figure 6: The "Test" button and battery charge level gauge.

## Charging Process and Status Indicators

Once the battery type is selected, the D200+ will automatically begin the charging process. The 4-color Charge Mode Status LED bar will indicate the current charging phase:

- **Analyze:** Blue pulsing light.
- **Charge:** Solid red light.
- **Conditioning:** Solid amber light.
- **Auto Maintain:** Solid green light.
- **Fault:** OFF (no light).

The charger will transition to "Auto Maintain" mode once the battery is fully charged, ensuring optimal battery health without overcharging.

## MAINTENANCE

- Keep the charger clean and dry. Wipe with a soft, damp cloth if necessary.
- Regularly inspect the AC power cord and DC output cables for any signs of damage, cuts, or fraying. Do not use the charger if cables are damaged.
- Store the charger in a cool, dry place when not in use. Utilize the integrated cable management wrap for tidy storage.
- Ensure battery terminals are clean and free of corrosion before connecting the charger.

## TROUBLESHOOTING

If you encounter issues with your OPTIMA D200+, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
"Check" LED illuminates (red).	Indicates a connection issue or battery problem.	<ul style="list-style-type: none"><li>◦ Verify that the battery clamps are securely connected to the correct terminals.</li><li>◦ Ensure the battery type selected on the charger matches the connected battery.</li><li>◦ Check if the battery is severely discharged or damaged.</li></ul>
Charger does not power on.	No AC power or faulty connection.	<ul style="list-style-type: none"><li>◦ Ensure the AC power cord is firmly plugged into a live electrical outlet.</li><li>◦ Check the outlet with another device to confirm it has power.</li></ul>
Battery not charging.	Incorrect battery type selected, poor connection, or battery fault.	<ul style="list-style-type: none"><li>◦ Confirm the correct battery type is selected.</li><li>◦ Re-check all connections.</li><li>◦ The battery may be beyond recovery. Consult a professional.</li></ul>

## SPECIFICATIONS

Feature	Detail
Brand	OPTIMA
Model Number	D200+
Output Voltage	12 Volts
Compatible Battery Types	Lithium (LiFePO4), AGM, Flooded
Item Weight	2 pounds (approx. 0.91 kg)



Feature	Detail
Product Dimensions	2"D x 5.5"W x 5.75"H (approx. 5.08 x 13.97 x 14.61 cm)
Manufacturer Part Number	150-41176





## WARRANTY AND SUPPORT

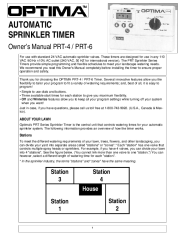
For warranty information or technical support, please refer to the official OPTIMA website or contact OPTIMA customer service directly. Keep your purchase receipt as proof of purchase for any warranty claims.

**OPTIMA Customer Support:** [Visit OPTIMA Support Page](#)

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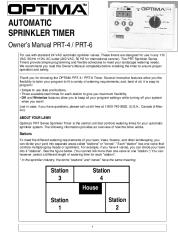
## Related Documents - D200+

	<p><a href="#">OPTIMA D200+ 12V Performance Maintainer User Guide</a></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><a href="#">OPTIMA D200+ 12V Performance Maintainer User Guide</a></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><a href="#">Optima Fire Alarm Control Panel Installation Manual</a></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><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>



### [Optima Automatic Sprinkler Timer PRT-4 / PRT-6 Owner's Manual](#)

Owner's manual for the Optima Automatic Sprinkler Timer PRT-4 / PRT-6, detailing installation, programming, and maintenance.



### [Optima PRT-4/PRT-6 Automatic Sprinkler Timer User Manual](#)

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.