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Clore Automotive PL3760

Clore Automotive PRO LOGIX PL3760 User Manual

Model: PL3760 | Brand: Clore Automotive

Introduction

The Clore Automotive PRO LOGIX PL3760 is an intelligent 12/24 Volt, 60A wheel charger designed for professional technicians. It offers fully automatic operation and compatibility with multiple battery types. This versatile unit provides fast charging, battery repair capabilities, engine starting assistance, and a stable power mode for system diagnosis, repair, and programming. It is suitable for charging Flooded, AGM, Spiral Wound, Marine, and Deep Cycle lead-acid batteries.

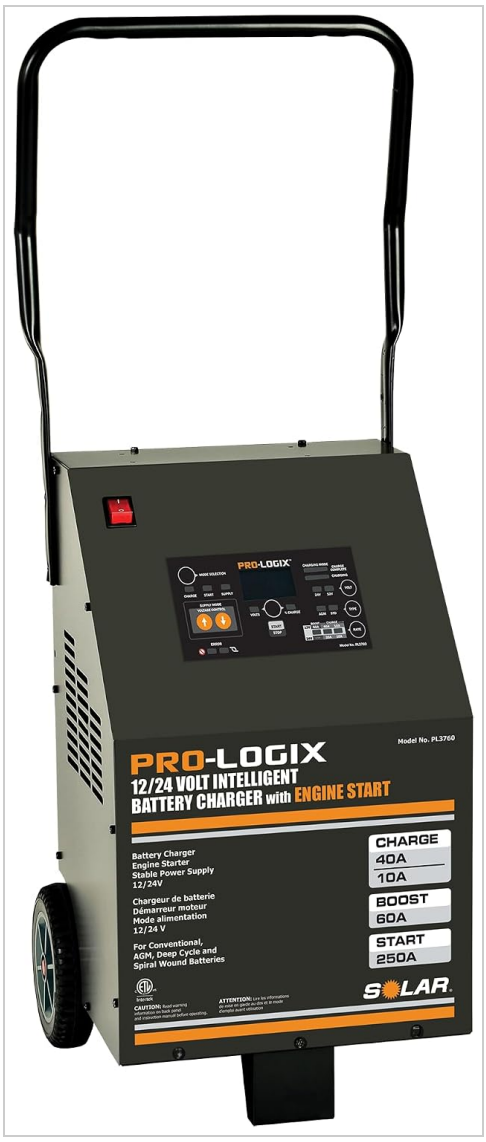
Safety Information

Always read and understand all safety warnings and instructions before operating the PL3760. Failure to do so may result in serious injury or property damage.

- **Eye Protection:** Always wear appropriate eye protection when working with batteries.
- **Ventilation:** Ensure adequate ventilation when charging batteries to prevent accumulation of explosive gases.
- **Flammable Materials:** Keep the charger away from flammable materials.
- **Electrical Shock:** Do not expose the charger to rain or wet conditions. Ensure hands are dry before handling.
- **Battery Acid:** Avoid contact with battery acid. If contact occurs, flush with water immediately and seek medical attention.
- **Proper Connection:** Connect and disconnect battery clamps only when the charger is off.
- **Children:** Keep out of reach of children.

Refer to the warning labels on the unit and the full instruction manual for comprehensive safety guidelines.

Product Overview and Features



The PRO LOGIX PL3760 is a robust, wheeled battery charger and engine starter. It features a durable casing, a convenient handle for portability, and an intuitive control panel. The front panel displays various charging modes, voltage selection, and battery type settings. It is designed for heavy-duty use in automotive environments.

Key Features:

- 12/24 Volt charging and maintaining capabilities.
- Multiple 12V charging rates: 60A, 40A, 40A, 10A.
- Multiple 24V charging rates: 20A, 10A.
- 0-60A 12V Stable Power Mode with a voltage range of 13.1-14.9V.
- 0-20A 24V Stable Power Mode with a voltage range of 26.2-29.8V.
- Engine Start assistance up to 250A.
- Compatibility with Flooded, AGM, Spiral Wound, Marine, and Deep Cycle battery types.
- Short Circuit Protection.

Components and Controls

The PL3760 features a user-friendly interface. Familiarize yourself with the following components:

- **Main Power Switch:** Located on the side, controls the unit's power.
- **Control Panel Display:** Digital display showing charging status, voltage, and selected modes.

- **Mode Selection Button:** Cycles through Charge, Start, and Supply modes.
- **Voltage Selection (12V/24V):** Buttons to select the desired operating voltage.
- **Battery Type Selection (AGM/STD/Deep Cycle):** Buttons to optimize charging for specific battery chemistries.
- **Charge Rate Selection (60A/40A/10A/20A):** Buttons to choose the charging current.
- **Start/Stop Button:** Initiates or terminates engine start assistance.
- **Supply Mode Voltage Control:** Up/Down arrows to adjust voltage in Stable Power Mode.
- **Error Indicator:** Illuminates to indicate faults or improper connections.
- **Charging Cables:** Heavy-duty cables with clamps for connecting to the battery.
- **Wheels and Handle:** For easy portability and maneuverability.

Setup

1. **Unpacking:** Carefully remove the charger from its packaging. Inspect for any shipping damage.
2. **Placement:** Position the charger on a stable, level surface in a well-ventilated area. Ensure it is not exposed to direct sunlight or moisture.
3. **Power Connection:** Connect the charger's AC power cord to a grounded electrical outlet. Ensure the outlet matches the charger's voltage requirements.
4. **Initial Check:** Before connecting to a battery, ensure the main power switch is in the OFF position.

Operating Instructions

Battery Charging:

1. Ensure the charger is OFF.
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, or to a chassis ground away from the battery if charging an in-vehicle battery.
4. Turn the main power switch ON.
5. Use the Mode Selection button to select "CHARGE".
6. Select the appropriate voltage (12V or 24V) using the voltage selection buttons.
7. Select the battery type (AGM, STD, Deep Cycle) using the battery type selection buttons.
8. Choose the desired charge rate (e.g., 60A, 40A, 10A for 12V; 20A, 10A for 24V). The charger will automatically begin charging.
9. Monitor the display for charging progress. The "CHARGE COMPLETE" indicator will illuminate when charging is finished.
10. Once complete, turn the charger OFF before disconnecting the clamps in reverse order (negative first, then positive).

Engine Starting Assistance:

1. Ensure the charger is OFF.
2. Connect the clamps to the battery as described in the charging section.
3. Turn the main power switch ON.
4. Use the Mode Selection button to select "START".

5. Ensure the correct voltage (12V or 24V) is selected.
6. Press the "START" button on the control panel. The charger will provide up to 250A of starting assistance.
7. Attempt to start the vehicle. If it doesn't start immediately, wait a few minutes before trying again to allow the charger to cool.
8. Once the engine starts, turn the charger OFF and disconnect the clamps.

Stable Power Mode (Power Supply):

This mode provides a stable voltage source for vehicle system diagnosis, repair, and programming, preventing voltage drops that can occur during these operations.

1. Ensure the charger is OFF.
2. Connect the clamps to the vehicle's battery terminals.
3. Turn the main power switch ON.
4. Use the Mode Selection button to select "SUPPLY".
5. Select the appropriate voltage (12V or 24V).
6. Use the "Supply Mode Voltage Control" up/down arrows to set the desired output voltage within the specified range (13.1-14.9V for 12V; 26.2-29.8V for 24V).
7. The charger will maintain the set voltage, providing stable power for diagnostic or programming tasks.
8. When finished, turn the charger OFF and disconnect the clamps.

Maintenance

- **Cleaning:** Keep the charger clean and free of dirt and debris. Use a dry cloth to wipe down the exterior. Do not use solvents.
- **Cable Inspection:** Regularly inspect the charging cables and clamps for any signs of damage, fraying, or corrosion. Replace if necessary.
- **Storage:** Store the charger in a cool, dry place when not in use. Ensure cables are neatly coiled.
- **Ventilation:** Keep the ventilation slots clear of obstructions to ensure proper airflow and prevent overheating.

Troubleshooting

Problem	Possible Cause	Solution
Charger does not turn on.	No AC power; Main switch off; Internal fuse.	Check power outlet and cord; Ensure main switch is ON; Contact service if fuse is suspected.
Error indicator illuminates.	Reverse polarity; Short circuit; Over-temperature.	Check clamp connections; Disconnect and re-connect properly; Allow unit to cool down.
Battery not charging.	Poor connection; Incorrect mode/voltage/battery type selected; Severely discharged battery.	Ensure clamps are securely connected; Verify settings; Battery may be beyond recovery.
Engine Start not working.	Insufficient battery charge; Incorrect connection; Overload protection.	Ensure battery has some charge; Check connections; Allow unit to reset if overloaded.

If problems persist, contact Clore Automotive customer support.

Specifications

Feature	Detail
Model	PL3760
Input Voltage	Standard AC (not specified, infer from typical chargers)
Output Voltage	12V DC, 24V DC
12V Charging Rates	60A, 40A, 10A
24V Charging Rates	20A, 10A
12V Stable Power Mode	0-60A, 13.1-14.9V
24V Stable Power Mode	0-20A, 26.2-29.8V
Engine Start Assist	250A
Supported Battery Types	Flooded, AGM, Spiral Wound, Marine, Deep Cycle
Item Weight	57 pounds
Product Dimensions	14 x 20 x 15 inches
Special Features	Short Circuit Protection

Warranty and Support

Clore Automotive products are designed for durability and performance. For warranty information, please refer to the documentation included with your purchase or visit the official Clore Automotive website. For technical support, troubleshooting assistance, or parts inquiries, please contact Clore Automotive customer service.
Online Resources: www.cloreautomotive.com

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