

Ultimate Speed ULGD 5.0 A1

Ultimate Speed ULGD 5.0 A1 Car Battery Charger User Manual

For All Cars and Motorcycle Batteries with 6 V or 12 V

1. INTRODUCTION

Thank you for choosing the Ultimate Speed ULGD 5.0 A1 Car Battery Charger. This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your device. Please read this manual thoroughly before first use and keep it for future reference.

The Ultimate Speed ULGD 5.0 A1 is a high-quality and versatile battery charger designed for both 6V and 12V car and motorcycle batteries. It features a 5A charging current and UL certification, ensuring reliable and safe performance. Its compact and lightweight design makes it convenient for everyday use.

2. SAFETY INSTRUCTIONS

Always observe the following safety precautions to prevent injury or damage to the device or battery:

- Read all instructions before using the charger.
- Use the charger only in well-ventilated areas.
- Do not expose the charger to rain or wet conditions.
- Ensure the charger is disconnected from the mains power before making or breaking connections to the battery.
- Avoid short-circuiting the charging cables.
- Do not attempt to charge non-rechargeable batteries.
- Keep out of reach of children.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent, or similarly qualified persons in order to avoid a hazard.

3. PRODUCT OVERVIEW

Familiarize yourself with the components of your Ultimate Speed ULGD 5.0 A1 battery charger.



Figure 3.1: The Ultimate Speed ULGD 5.0 A1 battery charger, showing its main unit with a digital display, power cable, and attached red (positive) and black (negative) battery clamps. The display indicates "12.9V" and battery charge level.



Figure 3.2: A top-down view of the Ultimate Speed ULGD 5.0 A1 battery charger, highlighting its compact design and the coiled charging cables with the red and black clamps. The display shows "12.4V".



Figure 3.3: The Ultimate Speed ULGD 5.0 A1 battery charger in use, placed on a car engine bay with its clamps connected to a vehicle battery. This illustrates a typical setup for charging.

Key Features:

- **Compatible Voltage:** The charger is compatible with 6V and 12V batteries, making it suitable for most cars and motorcycles.
- **Charging Performance:** With a charging power of 5A, the device is able to charge batteries quickly and efficiently.
- **Certified Safety:** The charger is UL certified, ensuring high safety standards during charging.
- **Versatility:** Thanks to its light weight and compact dimensions, the charger is an ideal travel companion and can be used for all standard 6V or 12V battery types.

4. SETUP

Follow these steps to set up your battery charger:

1. **Prepare the Battery:** Ensure the battery terminals are clean and free of corrosion. If charging a battery in a vehicle, ensure the vehicle's ignition is off and all electrical consumers are switched off.
2. **Connect to Battery:**
 - Connect the **red** positive (+) charging clamp to the **positive** (+) battery terminal.
 - Connect the **black** negative (-) charging clamp to the **negative** (-) battery terminal. If charging a battery installed in a vehicle, connect the black clamp to the vehicle chassis away from the battery and fuel line.
3. **Connect to Power:** Plug the charger's power cord into a suitable mains power outlet (e.g., 230V AC). The charger will power on and display the current battery voltage.

Note: Always connect the charger to the battery first, then to the mains power. Disconnect in reverse order: first from mains, then from battery.

5. OPERATING THE CHARGER

The ULGD 5.0 A1 charger operates largely automatically once connected. The display will show relevant information during the charging process.

- Automatic Mode Selection:** The charger automatically detects whether a 6V or 12V battery is connected and adjusts its charging parameters accordingly.
- Charging Process:** The charger will begin the charging cycle. The display may show the current voltage, charging current, or charging status. The charger employs a multi-stage charging process to optimize battery life and performance.
- Charge Completion:** Once the battery is fully charged, the charger will automatically switch to a maintenance or float charge mode to prevent overcharging. The display will indicate a full charge.
- Disconnecting:**
 - Unplug the charger from the mains power outlet.
 - Disconnect the **black** negative (-) charging clamp from the battery terminal or chassis.
 - Disconnect the **red** positive (+) charging clamp from the battery terminal.

6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your charger.

- Cleaning:** Disconnect the charger from all power sources before cleaning. Wipe the exterior with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- Storage:** Store the charger in a cool, dry place, away from direct sunlight and extreme temperatures. Ensure cables are neatly coiled and not kinked.
- Cable Inspection:** Periodically inspect the power cord and charging cables for any signs of damage, cuts, or fraying. Do not use the charger if cables are damaged.

7. TROUBLESHOOTING

If you encounter issues with your charger, refer to the table below for common problems and solutions.

Problem	Possible Cause	Solution
Charger does not turn on.	No power from outlet; faulty connection.	Check power outlet with another device; ensure power cord is securely plugged in.
Battery not charging.	Incorrect battery connection; battery is severely discharged or faulty.	Verify correct polarity (+ to + and - to -); check battery voltage (if below minimum, it may not be recoverable); have battery tested by a professional.
Display shows error code.	Short circuit; reverse polarity; internal fault.	Disconnect charger, check connections for short circuits or reverse polarity, reconnect. If error persists, contact support.

If the problem persists after attempting these solutions, please contact customer support.

8. SPECIFICATIONS

Technical specifications for the Ultimate Speed ULGD 5.0 A1 Car Battery Charger:

Specification	Value
Product Dimensions	5.26 x 7.45 x 5.26 cm
Item Weight	574 g
Manufacturer	Ultimate Speed
Item Model Number	ULGD 5.0 A1
Brand	Ultimate Speed
Colour	Black/Red/Grey
Output Voltage	6 Volts / 12 Volts (Automatic Detection)
Charging Current	5 Amps
Certification	UL Certified

9. WARRANTY AND SUPPORT

For information regarding warranty coverage, please refer to the warranty card included with your product or contact the retailer where you purchased the Ultimate Speed ULGD 5.0 A1 charger.

For technical support or service inquiries, please contact Ultimate Speed customer service through their official website or the contact information provided in your product packaging. Please have your model number (ULGD 5.0 A1) and purchase details ready when contacting support.