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Sealey AUTOCHARGE650HF

Sealey AUTOCHARGE650HF Compact Auto Smart Charger User Manual

Model No: AUTOCHARGE650HF

6.5A 9-Cycle 6/12V Compact Smart Charger & Maintainer for Lithium and Lead-Acid Batteries

IMPORTANT SAFETY INSTRUCTIONS

Read all instructions carefully before using the charger. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Ensure the charger is disconnected from the mains power supply before making or breaking connections to the battery.
- Use the charger in a well-ventilated area. Do not operate in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- Avoid direct contact with battery acid. Wear appropriate eye protection and gloves.
- Do not charge frozen batteries. Allow them to thaw before charging.
- Keep the charger away from water and moisture.
- Do not attempt to disassemble or modify the charger. Refer all servicing to qualified personnel.
- Ensure the correct voltage and battery type are selected before charging.
- Keep out of reach of children.

PRODUCT OVERVIEW

The Sealey AUTOCHARGE650HF is a compact, intelligent battery charger and maintainer designed for 6V and 12V lead-acid (STD, AGM, GEL) and Lithium (LiFePO4) batteries. It features a 9-cycle charging program to optimize battery performance and longevity.

Components

- Main Charger Unit
- Battery Clamps (Red for positive, Black for negative)
- AC Power Cord



Figure 1: Front view of the Sealey AUTOCHARGE650HF Smart Charger, showing the digital display, mode selection buttons, and battery clamps.



Figure 2: Angled view of the Sealey AUTOCHARGE650HF Smart Charger, highlighting its compact design and robust casing.



Figure 3: Top view of the Sealey AUTOCHARGE650HF Smart Charger, showing the ribbed design for heat dissipation.

SETUP

1. **Preparation:** Ensure the battery terminals are clean and free from corrosion. If necessary, clean them with a wire brush.
2. **Ventilation:** Place the charger in a well-ventilated area, away from direct sunlight, heat sources, and moisture.
3. **Connect to Battery:**
 - Connect the RED positive (+) clamp to the positive (+) battery terminal.
 - Connect the BLACK negative (-) clamp to the negative (-) battery terminal.
 - Ensure connections are secure.
4. **Connect to Power:** Plug the AC power cord into a standard electrical outlet. The charger will power on and enter standby mode.

OPERATING INSTRUCTIONS

Selecting Charging Mode

The AUTOCHARGE650HF offers multiple charging modes. Press the 'MODE' button (labeled 'C' on the unit) to cycle through the available options:

- **6V STD/AGM/GEL:** For 6-volt standard, AGM, or Gel lead-acid batteries.
- **12V STD/AGM/GEL:** For 12-volt standard, AGM, or Gel lead-acid batteries.
- **12V Lithium (LiFePO4):** Specifically for 12-volt Lithium Iron Phosphate batteries.
- **12V Winter/Supply:** For charging in cold conditions or for use as a power supply.

Starting the Charging Process

1. After connecting the charger to the battery and mains power, the display will show the current battery voltage.
2. Press the 'MODE' button (C) repeatedly until the desired charging mode is selected. The selected mode will be indicated on the display.
3. The charger will automatically begin the charging cycle. The display will show charging progress, current, and voltage.
4. Once charging is complete, the charger will automatically switch to maintenance mode (float charge) to keep the battery optimally charged.

Ending the Charging Process

1. Press the 'ENTER/EXIT' button (power symbol) to stop charging and put the unit into standby.

- 2. Disconnect the AC power cord from the mains outlet.
- 3. Disconnect the BLACK negative (-) clamp from the battery terminal.
- 4. Disconnect the RED positive (+) clamp from the battery terminal.

MAINTENANCE

Proper maintenance ensures the longevity and safe operation of your Sealey AUTOCHARGE650HF charger.

- **Cleaning:** Disconnect the charger from all power sources before cleaning. Wipe the exterior with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Storage:** Store the charger in a cool, dry place when not in use. Keep the cables neatly coiled to prevent damage.
- **Cable Inspection:** Periodically inspect the AC power cord and battery clamps for any signs of damage, fraying, or corrosion. Do not use the charger if any part is damaged.

TROUBLESHOOTING

Problem	Possible Cause / Solution
Charger does not power on.	<ul style="list-style-type: none">◦ Check if the AC power cord is securely plugged into the outlet and the charger.◦ Verify the power outlet is functional.
Charger not charging battery.	<ul style="list-style-type: none">◦ Ensure battery clamps are correctly connected (positive to positive, negative to negative).◦ Check for loose or corroded battery terminal connections.◦ Verify the correct charging mode is selected for the battery type and voltage.◦ Battery may be severely discharged or faulty.
Display shows an error code.	<ul style="list-style-type: none">◦ Refer to the charger's display for specific error codes (e.g., reverse polarity, short circuit, over-voltage). Disconnect and re-connect the battery correctly.◦ If the error persists, the battery or charger may be faulty.
Charger gets warm during operation.	<ul style="list-style-type: none">◦ This is normal during charging. Ensure adequate ventilation around the charger.◦ If it becomes excessively hot, disconnect immediately and check for obstructions or faulty connections.

SPECIFICATIONS

Feature	Detail
Model Number	AUTOCHARGE650HF

Feature	Detail
Input Voltage	Standard AC
Output Voltage	6V / 12V DC
Output Current	6.5A (Max)
Battery Types Supported	STD, AGM, GEL (Lead-Acid), Lithium (LiFePO4)
Charging Cycles	9-Cycle
Item Weight	2.27 pounds (1.03 Kilograms)
Product Dimensions	5.12 x 10.63 x 4.72 inches
Manufacturer	SEALEY
Date First Available	March 21, 2019

WARRANTY AND SUPPORT

Warranty Information

The Sealey AUTOCHARGE650HF Compact Auto Smart Charger comes with a **2-Year Guarantee** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims. Terms and conditions apply.

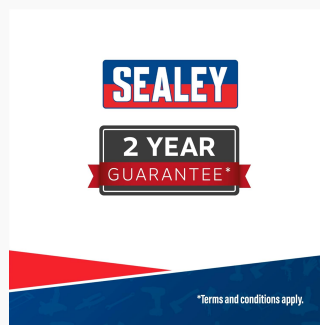








Figure 4: Sealey 2 Year Guarantee.

Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact Sealey customer support. Visit the official Sealey website for contact details and further resources.

Note: Do not return the product to the place of purchase without prior authorization from Sealey customer service.

Related Documents - AUTOCHARGE650HF

	<p>Sealey AUTOCHARGE650HF 6.5A 9-Cycle 6/12V Compact Smart Charger & Maintainer User Manual</p> <p>Comprehensive user manual for the Sealey AUTOCHARGE650HF, a 6.5A 9-cycle 6/12V compact smart charger and maintainer. Covers safety precautions, product specifications, operation modes, charging stages, troubleshooting, and maintenance.</p>
	<p>Sealey PWH601 Auto Darkening Welding Helmet Shade 9-13 User Manual</p> <p>Comprehensive user manual for the Sealey PWH601 Auto Darkening Welding Helmet. Covers safety precautions, operating instructions, maintenance, troubleshooting, shade guide, and battery safety for shade 9-13 welding.</p>
	<p>Sealey AUTOCHARGE1200HF 12A 9-Cycle 12/24V Compact Smart Battery Charger & Maintainer User Manual</p> <p>Comprehensive user manual for the Sealey AUTOCHARGE1200HF, a 12A 9-cycle 12/24V smart battery charger and maintainer. Covers safety, specifications, operation, troubleshooting, and maintenance for various vehicle batteries.</p>
	<p>Sealey HT108LED v1 Safety Data Sheet: Lithium-ion Battery Information</p> <p>Comprehensive Safety Data Sheet (SDS) for the Sealey HT108LED v1 Head & Hat Torch, detailing battery specifications, hazard identification, first aid measures, fire fighting, handling, storage, transport, and disposal information for lithium-ion batteries.</p>
	<p>Sealey 1050CXLE v3 Trolley Jack Hydraulic Oil Safety Data Sheet</p> <p>Safety Data Sheet for Sealey 1050CXLE v3 Trolley Jack 2 Tonne Low Profile Short Chassis Hydraulic oil, detailing product identification, hazards, first aid, fire-fighting, handling, storage, physical properties, and disposal.</p>
	<p>Sealey PWH600.V2 Auto Darkening Welding Helmet: Instructions & Specifications</p> <p>Comprehensive instructions, safety guidelines, specifications, and troubleshooting for the Sealey PWH600.V2 auto darkening welding helmet with shade 9-13. Learn about setup, maintenance, and optimal use for MIG, TIG, and arc welding.</p>