

## HFT 63350

# Viking 4 Amp Fully Automatic Microprocessor-Controlled Battery Charger/Maintainer User Manual

Model: 63350

## INTRODUCTION

---

This manual provides essential instructions for the safe and effective operation of your Viking 4 Amp Fully Automatic Microprocessor-Controlled Battery Charger/Maintainer. This device is designed to charge and maintain most 12V lead-acid batteries, including deep-cycle, gel, and AGM types, using advanced microprocessor technology. Please read this manual thoroughly before initial use and retain it for future reference.

## SAFETY INFORMATION

---

Always prioritize safety when working with batteries and electrical equipment. Failure to follow these instructions may result in electric shock, fire, or serious injury. This charger is not a jump starter and requires an AC power source for operation.

- Read all instructions before use.
- Use in a well-ventilated area. Batteries can produce explosive gases.
- Wear eye protection and protective clothing.
- Keep out of reach of children.
- Do not expose the charger to rain or wet conditions.
- Ensure proper polarity when connecting to a battery: **RED** to positive (+), **BLACK** to negative (-).
- Disconnect AC power before making or breaking battery connections.
- This charger is designed exclusively for 12V lead-acid batteries (AGM, Gel, Deep Cycle, Standard). Do not use with other battery types, such as lithium-ion, unless explicitly stated by the manufacturer.
- Do not attempt to charge a frozen battery.

## PRODUCT OVERVIEW

The Viking 4 Amp Battery Charger/Maintainer features a compact design and an intuitive display for easy operation. It includes various components for versatile battery connection.



**Image 1:** The Viking 4 Amp Battery Charger/Maintainer, showing the main unit with its digital display, AC power cord, and interchangeable battery connection cables (alligator clips and ring terminals).

### Key Features:

- Microprocessor control adjusts current to match battery type and condition.
- High frequency technology for over 20% greater efficiency and over 50% lighter weight compared to conventional charging systems.

- Winter mode for specialized battery charging in cold weather conditions.
- Large, easy-to-read LCD display shows readouts for Charging Mode, Battery Capacity, Battery Voltage, and Charging Faults.
- Automatically switches to maintenance mode when the battery is fully charged.
- Equipped with heavy-duty 7 ft. 14 gauge cables for durability and reach.

## SPECIFICATIONS

---

Feature	Detail
Model Number	63350
Input Voltage	120V AC
Output Voltage	12 Volts DC
Charging Current	4 Amp
Compatible Battery Types	12V Lead-Acid (AGM, Gel, Deep Cycle, Standard)
Product Dimensions	6.25 x 3.25 x 2.25 inches
Item Weight	1.25 pounds (approx. 20 ounces)
Certifications	UL, FCC

## SETUP

---

1. **Unpack:** Carefully remove the charger and all accessories from the packaging. Inspect for any signs of damage.
2. **Ventilation:** Ensure the charging area is well-ventilated and free from flammable materials, sparks, or open flames.
3. **Battery Preparation:** Clean battery terminals if necessary to ensure a good connection. Ensure battery caps are securely in place (if applicable for flooded batteries).
4. **Connection:** Choose the appropriate battery connection method (alligator clips or ring terminals). Connect the **RED** positive (+) clamp/terminal to the positive (+) battery post. Connect the **BLACK** negative (-) clamp/terminal to the negative (-) battery post. If the battery is installed in a vehicle, connect the negative clamp to the vehicle chassis away from the battery and fuel line.
5. **Power Connection:** Plug the charger's AC power cord into a standard 120V AC electrical outlet. The charger will power on and perform an initial self-check.

## OPERATING INSTRUCTIONS

---

The charger automatically detects battery voltage and type. Use the MODE button to select specific charging options for optimal performance.

### Charging Process:

1. **Initial Display:** Upon plugging in and connecting to a battery, the LCD will display the current battery

voltage and a default charging mode.

2. **Select Mode:** Press the **MODE** button to cycle through available charging modes: Standard, AGM, Gel, Deep Cycle, and Winter Mode. Select the mode appropriate for your battery type. The charger will automatically adjust the amperage rate based on the battery's condition.
3. **Monitoring:** The LCD display will show real-time information including the selected Charging Mode, estimated Battery Capacity, current Battery Voltage, and any Charging Faults.
4. **Completion:** Once the battery is fully charged, the charger will automatically switch to maintenance mode (float charge) to prevent overcharging and keep the battery at optimal capacity. The display will indicate "FULL" or a similar status.
5. **Disconnection:** To disconnect, first unplug the charger from the AC outlet. Then, disconnect the negative (-) clamp/terminal, followed by the positive (+) clamp/terminal.

### Winter Mode:

Activate Winter Mode for specialized charging in cold weather conditions (typically below 5°C / 41°F). This mode optimizes charging parameters for improved performance and safety in low temperatures.

### Reconditioning Function:

The high frequency current pulse feature can be utilized to help recondition weak, sulfated, or deeply drained 12V lead-acid batteries. The charger will automatically attempt this function if it detects a suitable condition. Monitor the display for reconditioning status.

## MAINTENANCE

---

Proper maintenance ensures the longevity and safe operation of your battery 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 solvents.
- **Cable Inspection:** Regularly inspect the AC power cord and battery cables for any signs of damage, fraying, cuts, or corrosion. Replace damaged cables immediately.
- **Storage:** Store the charger in a cool, dry place when not in use. Keep cables neatly coiled and avoid kinks or sharp bends.

## 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 AC power; faulty electrical outlet; damaged power cord.	Check AC outlet with another device; inspect power cord for damage; try a different outlet.
Charger displays "Fault" or an error code.	Incorrect battery connection (reverse polarity); battery severely damaged or shorted; incorrect battery type selected.	Verify correct polarity of battery connections; check battery condition (consult a professional if needed); ensure correct charging mode is selected for your battery type.

Battery not charging or charging slowly.	Poor connection to battery terminals; battery is beyond reconditioning; charger malfunction; battery capacity too large for 4 Amp charger.	Clean battery terminals and re-establish connection; consult a professional for battery assessment; ensure the charger is appropriate for your battery's size; contact customer support if charger is suspected faulty.
--	--	---

## WARRANTY AND SUPPORT

---

For warranty information or technical support, please refer to the documentation included with your purchase or contact HFT customer service directly. Keep your proof of purchase for all warranty claims.

**Manufacturer:** HFT