

CTEK 56-865

CTEK US 0.8 12 Volt Smart Battery Charger Instruction Manual

Model: 56-865

INTRODUCTION

The CTEK US 0.8 is a compact and fully automatic 12 Volt battery charger and maintainer designed for smaller lead-acid batteries. It is ideal for motorcycles, jet skis, ATVs, and lawn mowers, ensuring optimal battery life and performance through its advanced charging process. This manual provides essential information for safe and effective use of your CTEK US 0.8 charger.

SAFETY INFORMATION

Always read and understand all safety warnings and instructions before using the charger.

- Ensure the charger is connected to a 100-115VAC, 50-60Hz power outlet.
- Do not charge non-rechargeable batteries.
- Always connect the charger to the battery terminals correctly: positive to positive, negative to negative. The charger features reverse polarity protection.
- Avoid sparks and open flames near the battery, as batteries can emit explosive gases.
- Use in a well-ventilated area.
- Keep out of reach of children.
- Do not expose the charger to water or excessive moisture.
- If the charger or cables are damaged, do not use them. Contact CTEK support.

PRODUCT OVERVIEW



Image: The CTEK US 0.8 Smart Battery Charger, showing its compact design, power cord, and LED indicator panel. The panel displays the charging status through a series of illuminated icons, indicating the current stage of the charging process. The charger is labeled "US 0.8 CTEK 12V/0.8A" and "BATTERY CHARGER FOR 12V LEAD ACID BATTERIES".

The CTEK US 0.8 is a sophisticated 12V battery charger and maintainer. It features a fully automatic charging program designed to optimize battery life and performance. Key features include:

- **Fully Automatic Operation:** No need to monitor the charging process; the charger handles it automatically.
- **Advanced Charging:** Employs a multi-step process for thorough and efficient charging, followed by long-term maintenance.
- **Spark-Free and Reverse Polarity Protected:** Enhances safety during connection and operation.
- **Ideal for AGM Batteries:** Compatible with various 12V lead-acid battery types, including Wet, MF, GEL, and AGM.
- **Maintenance Charging:** Can be left connected indefinitely to maintain battery charge.

SETUP

1. **Prepare the Battery:** Ensure the battery terminals are clean and free from corrosion. If the battery is in a vehicle, ensure the vehicle's ignition is off.

2. Connect to Battery:

- Connect the red (positive) clamp or eyelet to the positive (+) battery terminal.
- Connect the black (negative) clamp or eyelet to the negative (-) battery terminal.
- If connecting to a battery installed in a vehicle, connect the negative clamp to the vehicle chassis away from the battery and fuel line, if possible.

Note: The charger includes both battery terminal clips and eyelet terminals for flexible connection options.

3. **Connect to Power Outlet:** Plug the charger's AC cord into a standard 100-115VAC, 50-60Hz wall outlet.

4. **Verify Connection:** The charger's indicator lights will illuminate to show the charging process has begun. If the alarm light (reverse polarity indicator) illuminates, disconnect immediately and re-check connections.

OPERATING INSTRUCTIONS: CHARGING PHASES

The CTEK US 0.8 operates through a fully automatic multi-step charging and maintenance program. The LED indicators on the charger will show the current stage. Based on user experience, the process typically involves four main phases:

1. Phase 1: DESULPHATION

This phase addresses sulphated batteries by applying a pulsing current and voltage to restore capacity.

2. Phase 2: BULK

The primary charging phase, delivering constant current until the battery reaches approximately 80% charge and the terminal voltage reaches the set level.

3. Phase 3: ABSORPTION

Completes the charge to nearly 100%. The charger switches to a constant voltage, with the current gradually decreasing.

4. Phase 4: MAINTENANCE (Pulse)

The battery is continuously monitored. When the voltage drops, the charger provides a pulse to maintain the optimal charge level. The charger can remain connected indefinitely in this mode.

Charging Times: Charging times vary depending on battery size. For example, a 2Ah battery may take 1.5 hours, while a 36Ah battery could take up to 36 hours.

MAINTENANCE

The CTEK US 0.8 charger is designed to be largely maintenance-free. However, regular checks can ensure optimal performance and longevity.

- Keep the charger and its cables clean and dry.
- Inspect cables and connectors for any signs of damage before each use.
- Store the charger in a cool, dry place when not in use.
- Ensure good ventilation around the charger during operation.

TROUBLESHOOTING

- **Charger not starting or indicator lights not illuminating:**

- Check if the charger is properly plugged into the wall outlet.
 - Ensure the battery connections (positive and negative) are secure and correct.
 - Verify the wall outlet has power.
- **Alarm light (reverse polarity) is on:**
 - Immediately disconnect the charger from both the wall and the battery.
 - Re-connect the red clamp/eyelet to the positive (+) terminal and the black clamp/eyelet to the negative (-) terminal.
- **Battery not fully charging or taking too long:**
 - Ensure the battery size is within the charger's recommended range (2-32Ah).
 - The battery may be heavily discharged or sulphated, requiring more time in the desulphation phase.
 - Check for extreme temperatures, which can affect charging efficiency.
 - If the battery is old or damaged, it may not hold a charge effectively. Consider having the battery tested.
- **Charger gets very warm:**
 - It is normal for the charger to become warm during operation, especially during the bulk charging phase.
 - Ensure adequate ventilation around the charger. If it becomes excessively hot or emits smoke/unusual odors, disconnect immediately and contact support.

SPECIFICATIONS

Model Number	56-865
Input Voltage	100-115VAC, 50-60Hz
Output Voltage	12 Volts
Charging Current	0.8 A
Charging Voltage	14.4 V
Battery Capacity	2-32 Ah
Battery Types	12V Lead-Acid batteries (Wet, MF, Ca/Ca, AGM, GEL)
Dimensions (L x W x H)	10.9 x 2.4 x 5.9 inches (Product)
Weight	3 pounds
Protection	IP65 (splash and dust proof), Spark-free, Reverse polarity protection, Short circuit proof

WARRANTY AND SUPPORT

The CTEK US 0.8 Smart Battery Charger is covered by a **5-year limited warranty**. This warranty covers defects in material and workmanship. It is void if the product has been abused, mishandled, or repaired by unauthorized personnel.

For technical support, warranty claims, or further information, please visit the official CTEK website or contact their customer service department.

CTEK Official Website: www.ctek.com