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# CTEK Multi MXS 10 Battery Charger Conditioner User Manual

Model: MXS 10

## 1. INTRODUCTION

The CTEK Multi MXS 10 is an advanced, fully automatic 8-step battery charger and conditioner designed for 12V lead-acid batteries. It is suitable for a wide range of vehicles, including cars, motorcycles, and marine applications. This charger offers features such as desulphation, reconditioning, and temperature compensation to ensure optimal charging and extended battery life. Its robust design allows for outdoor use in various temperatures.



Image: The CTEK Multi MXS 10 charger, showing its main unit, red and black battery clamps, and ring terminal connectors.

## 2. SAFETY INFORMATION

Always read and understand all safety warnings and instructions before using the charger. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Read the Manual:** Always read the entire instruction manual before operating the charger.
- **Ventilation:** Ensure adequate ventilation when charging. Batteries can emit explosive gases.
- **Eye Protection:** Always wear eye protection when working with batteries.
- **No Smoking/Sparks:** Do not smoke or allow a spark or flame in the vicinity of the battery or engine.
- **Disconnect Power:** Disconnect the charger from the mains power before making or breaking the connections to the battery.
- **Reverse Polarity Protection:** The charger is protected against reverse polarity, but always ensure correct connection for safety.
- **Outdoor Use:** The charger is designed for outdoor use, but avoid direct exposure to heavy rain or snow.

### 3. SETUP

#### Connecting the Charger

- Identify Battery Terminals:** Locate the positive (+) and negative (-) terminals on your battery. The positive terminal is usually marked with a plus sign and is larger.
- Connect Positive:** Connect the red (positive) charger clamp or ring terminal to the positive (+) battery terminal.
- Connect Negative:** Connect the black (negative) charger clamp or ring terminal to the negative (-) battery terminal. If the battery is installed in a vehicle, connect the negative clamp to the vehicle chassis away from the battery and fuel line, if possible.
- Connect to Mains:** Plug the charger's power cord into a suitable mains power outlet.



Image: A person connecting the CTEK MXS 10 charger to a car battery, demonstrating the ease of connection for automated charging.

### 4. OPERATING MODES

## Charging Process

The CTEK MXS 10 operates with an 8-step fully automatic charging cycle. Once connected and powered, the charger will automatically begin its sequence. Press the 'MODE' button to select the desired charging program.

- **NORMAL:** For normal lead-acid batteries (Wet, MF, Ca/Ca, GEL, AGM).
- **RECOND:** A special program to restore battery life and recondition deeply discharged or stratified batteries. This mode adds a reconditioning step to the charging process.
- **SUPPLY:** Provides constant voltage (13.6V) for power supply during battery removal or for maintaining electrical settings.
- **AGM:** Optimized charging for AGM batteries, which require a slightly higher charging voltage.



Image: The CTEK MXS 10 charger highlighting its patented desulphation and reconditioning mode, designed to recover battery power and extend lifespan.



## **SAFE FOR ALL 12V LEAD-ACID BATTERIES**

Perfect for standard, AGM, and other 12V lead-acid batteries  
**with specialized AGM charging mode**

Image: The CTEK MXS 10 charger connected to two large 12V lead-acid batteries, illustrating its compatibility and safety for various battery types.

A close-up photograph of a CTEK MXS 10 battery charger. The device is a rectangular, light-colored unit with a black power cord. The CTEK logo is prominently displayed in the center. The model name 'MXS 10' is at the top right, and '12V/10A' is at the bottom right. The front panel features several buttons and indicator lights. The background is dark, showing the interior of a vehicle with various wires and components visible.

## MAINTAIN BATTERY HEALTH ***WITHOUT OVERCHARGING***

Connect and forget—**patented float/pulse** maintenance protects your battery over time.

Image: The CTEK MXS 10 charger positioned on a vehicle, emphasizing its ability to maintain battery health without overcharging through patented float/pulse maintenance.

### 5. KEY FEATURES

- **Fully Automatic:** Simple to connect and easy to use, with spark-free and reverse polarity protected operation.
- **Robust Design:** Developed and tested in Sweden, designed for outdoor use in extreme temperatures.
- **Versatile Compatibility:** Compatible with various types of 12V lead-acid vehicle batteries.
- **Reconditioning Program:** Dedicated program to restore battery life and recondition flat or deeply discharged batteries.
- **Power Supply Function:** Can act as a power supply (up to 10A) to protect electrical settings when the battery is removed from the vehicle.
- **Capacity Range:** Charges batteries from 20Ah up to 200Ah and maintains larger batteries up to 300Ah.
- **Detachable Temperature Sensor:** Allows for precise charging adjustments based on ambient temperature.

Built-in

# TEMPERATURE COMPENSATION



Adjusts charging for extreme  
heat or cold, ensuring **optimal  
performance in any weather**

Image: The CTEK MXS 10 charger with water droplets, illustrating its built-in temperature compensation feature that adjusts charging for optimal performance in any weather.

# ENGINEERED FOR SAFETY AND DURABILITY



Splash, dust, and short proof, with reverse polarity protection

Image: A hand pressing a button on the CTEK MXS 10 charger, emphasizing its engineering for safety and durability, including splash, dust, and shock proofing.

## 6. MAINTENANCE

The CTEK MXS 10 charger requires minimal maintenance. Follow these guidelines to ensure its longevity:

- **Cleaning:** Wipe the charger casing with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Cable Inspection:** Regularly inspect the charging cables and connectors 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 to prevent damage.
- **Battery Terminals:** Keep battery terminals clean and free of corrosion for optimal connection.

## 7. TROUBLESHOOTING

If you encounter issues with your CTEK MXS 10 charger, refer to the table below for common problems and

solutions.

Problem	Possible Cause	Solution
Charger not starting/no lights	No mains power; Incorrect battery connection; Battery voltage too low.	Check power outlet; Ensure correct polarity (+ to +, - to -); Battery may be too deeply discharged (try RECOND mode if applicable, or consult a professional).
Charging indicator not progressing	Battery heavily discharged; Battery faulty; Incorrect mode selected.	Allow more time; Test battery with a load tester; Select appropriate mode (e.g., RECOND for deeply discharged).
Charger shows error/fault light	Reverse polarity; Short circuit; Internal fault.	Check connections for reverse polarity; Inspect cables for damage; If fault persists, contact support.
Battery not holding charge after charging	Battery is old/damaged; Battery has internal short.	The battery may need replacement. The charger cannot repair a physically damaged battery.

## 8. TECHNICAL SPECIFICATIONS

Specification	Value
Model	MXS 10
Manufacturer	CTEK
Voltage	12 Volts (DC)
Amperage	10 Amps
Product Dimensions	20 x 10 x 20 cm
Item Weight	998 g
Battery Capacity	20-200Ah (charging), up to 300Ah (maintaining)
Charging Stages	8-Stage
First Available Date	20 Sept. 2011

## 9. WARRANTY AND SUPPORT

The CTEK Multi MXS 10 Battery Charger Conditioner comes with a **2-year warranty** from the date of purchase. This warranty covers defects in material and workmanship.

For warranty claims, technical support, or any questions regarding your product, please contact CTEK customer service through their official website or authorized distributors. Please retain your proof of purchase for warranty validation.

