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› CRAFTSMAN CMXCESM258 12A Car Battery Charger and Maintainer User Manual

CRAFTSMAN CMXCESM258

CRAFTSMAN CMXCESM258 12A Car Battery Charger and Maintainer User Manual

1. INTRODUCTION

This manual provides essential instructions for the safe and effective operation of your CRAFTSMAN CMXCESM258 12A Car Battery Charger and Maintainer. This device is a 4-in-1 solution designed to charge, maintain, test, and recondition 6V and 12V batteries. It is compatible with various battery types including standard, AGM, lithium (LiFePO4), and deep-cycle batteries found in power sport vehicles, automobiles, and marine applications.

4-IN-1 MULTIFUNCTIONAL POWER SOURCE

BATTERY CHARGER

BATTERY MAINTAINER

DESULFATOR

BATTERY TESTER



Image 1.1: Front view of the CRAFTSMAN CMXCESM258 battery charger.

2. IMPORTANT SAFETY INSTRUCTIONS

WARNING: Read all instructions carefully before using this product. Failure to follow these instructions may result in electric shock, fire, or serious injury. Save these instructions for future reference.

2.1 General Safety Precautions

- Always wear eye protection and protective clothing when working with batteries.
- Ensure adequate ventilation when charging batteries to prevent accumulation of explosive gases.
- Do not smoke or allow sparks or flames in the vicinity of the battery or charger.
- Never charge a frozen battery.
- Keep the charger away from water, rain, or excessive moisture.
- Do not operate the charger if it has received a sharp blow, been dropped, or otherwise damaged.
- This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

2.2 Electrical Safety

- Ensure the AC power cord is in good condition and not damaged.
- Connect the charger to a properly grounded outlet.
- Disconnect the AC power before making or breaking connections to the battery.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- (1) CRAFTSMAN CMXCESM258 Fully Automatic Battery Charger and Maintainer
- (1) User Manual

4. PRODUCT FEATURES

The CRAFTSMAN CMXCESM258 offers a range of features for comprehensive battery care:

- **4-in-1 Device:** Charges, maintains, tests, and reconditions batteries.
- **Immediate Charging Power:** Delivers 12-amp 12V charging, 3-amp 12V charging and maintaining, and 2-amp 6V charging and maintaining.
- **Smart Trickle Charge:** Maintains 6V and 12V batteries safely over time without overcharging.
- **Wide Compatibility:** Works with gas and diesel vehicles, 6V and 12V batteries, including standard, AGM, lithium (LiFePO₄), and deep-cycle battery types.
- **Battery Reconditioning:** Helps extend battery life and improve performance with an advanced desulfation mode.
- **Built-In Battery Tester:** Quickly checks battery health for easy diagnostics.
- **Reverse Polarity Protection:** Prevents damage to your battery and vehicle if clamps are accidentally reversed.
- **AC Powered:** This unit, with a 6-foot power cord and booster cables, must be plugged in during use.

FULLY AUTOMATIC BATTERY CHARGER AND MAINTAINER



Image 4.1: Key components of the CRAFTSMAN CMXCESM258 battery charger.

PLUG-IN CHARGING






























Image 4.2: The charger features reverse polarity protection to prevent damage from incorrect connections.



CRAFTSMAN FULLY AUTOMATIC

BATTERY CHARGER/MAINTAINER

IDEAL FOR MAINTAINING ALL POWER SPORT, CAR AND BOAT BATTERIES

											
Motorcycle	Snowmobile	Lawn Mower	Personal Watercraft	ATV	Vintage Car	Car	Tractor	SUV	Boat	RV	Truck
											
 CHARGE AND MAINTAIN	 MAINTAIN ONLY			 NOT APPLICABLE							

BATTERY CHARGER & MAINTAINER

IDEAL FOR MAINTAINING ALL POWER SPORT, CAR & BOAT BATTERIES

Image 4.3: Compatibility chart detailing supported vehicle types and battery functions.

5. SETUP

Before connecting the charger, ensure the vehicle is turned off and in a well-ventilated area. Follow these steps for initial setup:

1. Identify the battery terminals (positive and negative).
2. Ensure the charger's AC power cord is unplugged from the electrical outlet.
3. Connect the red (positive) clamp to the positive (+) battery terminal.
4. Connect the black (negative) clamp to the negative (-) battery terminal. For vehicles, connect the negative clamp to a non-painted metal part of the vehicle chassis away from the battery and fuel line.
5. Plug the charger's AC power cord into a standard 120V AC electrical outlet.



QUICK START GUIDE

- **Connect the Clamps to the Battery**
- **Plug the Charger into a 120V Outlet**
- **Set the Battery Type and Charge Rate**
- **Press the Start/Stop Button**

Refer to the user manual for detailed instructions.

Image 5.1: Quick start guide for connecting and operating the charger.



**CHARGES
MOST
BATTERIES**

Image 5.2: The charger requires a standard AC power connection for operation.

6. OPERATING INSTRUCTIONS

Once connected and powered, the charger will automatically detect the battery voltage. Follow these steps to begin charging:

1. **Select Battery Type:** Use the 'Battery Type' button on the charger's control panel to select the appropriate battery chemistry (Standard, AGM, Lithium, Deep Cycle).
2. **Select Charge Rate:** Use the 'Rate Selection' button to choose the desired charging amperage (e.g., 12A for fast charge, 3A for maintenance, 2A for 6V).
3. **Start Charging:** Press the 'Start/Stop' button to initiate the charging process. The display will show charging status and battery voltage.
4. **Monitor Progress:** The charger's display and LED indicators will show the charging progress.
5. **Finish Charging:** Once charging is complete, the charger will automatically switch to maintenance mode or indicate full charge.
6. **Disconnect:** First, press the 'Start/Stop' button to stop charging. Then, unplug the AC power cord from the outlet. Finally, disconnect the negative (black) clamp, followed by the positive (red) clamp from the battery.



Image 6.1: The charger in use within an engine bay, demonstrating practical application.



ALLOWS FAST CHARGING MICROPROCESSOR ADJUSTS VOLTAGE AND CHARGE

Image 6.2: The charger with its color-coded clamps connected, illustrating proper setup.

7. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your battery charger:

- **Cleaning:** Wipe the charger casing with a soft, dry cloth. Do not use solvents or abrasive cleaners.
- **Cable and Clamp Inspection:** Periodically inspect the AC power cord, battery cables, and clamps for any signs of damage, fraying, or corrosion. Replace if necessary.
- **Storage:** Store the charger in a clean, dry, and cool place when not in use. Ensure cables are neatly coiled and not kinked.

8. TROUBLESHOOTING

If you encounter issues with your CRAFTSMAN CMXCESM258, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Charger does not turn on	No AC power; Faulty outlet; Damaged cord	Check AC outlet; Inspect power cord; Try a different outlet.
Charger not charging battery	Incorrect battery connection; Battery is severely discharged or faulty; Incorrect mode selected	Ensure correct polarity; Test battery health; Select appropriate battery type and charge rate.
Error message on display	Reverse polarity; Short circuit; Internal fault	Check clamp connections; Disconnect and reconnect; If error persists, contact customer support.
Charger gets warm during operation	Normal operation; Overload	Slight warmth is normal. Ensure adequate ventilation. If excessively hot, disconnect and allow to cool.

If troubleshooting steps do not resolve the issue, contact CRAFTSMAN customer support.

9. SPECIFICATIONS

Detailed technical specifications for the CRAFTSMAN CMXCESM258:

Brand:

CRAFTSMAN

Model Number:

CMXCESM258

Product Dimensions:

12"D x 16"W x 5"H

Item Weight:

3.4 Pounds

Output Voltage:

12 Volts

Input Voltage:

12 Volts

Current Rating (Amperage):

12 Amps

Compatible Devices:

Standard, AGM, Lithium (LiFePO4), Deep Cycle batteries for Gas and Diesel Vehicles

Connector Type:

Clamp

Certifications:

UL, FCC

Manufacturer:

Schumacher Electric

UPC:

026666302586

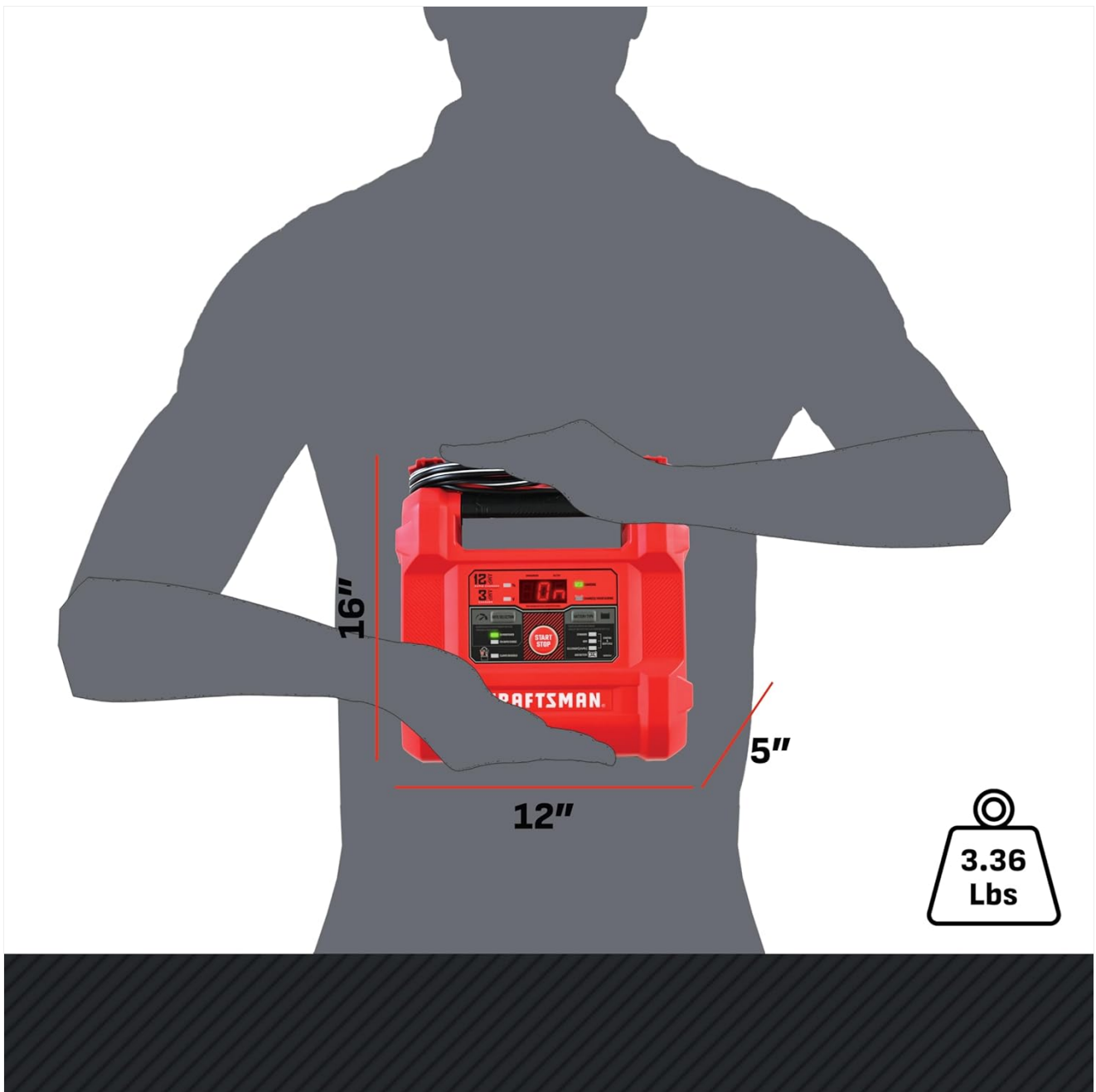


Image 9.1: Physical dimensions and weight of the CRAFTSMAN CMXCESM258.

10. WARRANTY AND SUPPORT

The CRAFTSMAN CMXCESM258 Battery Charger and Maintainer is backed by a 1-year limited warranty. This warranty covers defects in material and workmanship. Proof of purchase is required for warranty claims. The warranty is not transferable. For detailed warranty information, please refer to the official CRAFTSMAN website.

For technical assistance, troubleshooting, or warranty claims, please contact CRAFTSMAN customer support through their official channels.

1 YEAR LIMITED* WARRANTY

WE BUILD PRIDE.™

*IF A PRODUCT FAILS TO PERFORM DUE TO DEFECTS IN MATERIAL OR WORKMANSHIP, WE WILL REPLACE IT. PROOF OF PURCHASE IS REQUIRED. WARRANTY IS NOT TRANSFERABLE. SEE CRAFTSMAN.COM FOR DETAILS.

Image 10.1: Information regarding the 1-year limited warranty.