

TRUPER CARBA-50

Truper CARBA-50 12V 50A Battery Charger with Ammeter User Manual

Model: CARBA-50

1. PRODUCT OVERVIEW

The Truper CARBA-50 is a 12V battery charger with a 50A engine start function and an integrated ammeter. Designed for charging and maintaining various vehicle batteries, it features a durable steel body and manual operation with selectable charge rates.

Key Features:

- **Durable Construction:** Features a steel sheet body for enhanced durability.
- **Long Cables:** Equipped with 1.9 m (approximately 6.2 ft) 14-gauge cables for convenient reach.
- **Manual Operation:** Allows manual selection of charge speed.
- **Portable Design:** Lightweight and portable for easy transport and storage.
- **Integrated Ammeter:** Provides visual indication of charging current.
- **Versatile Use:** Suitable for charging batteries in cars, pickup trucks, trucks, boats, tractors, motorcycles, and lawnmowers.




Image 1.1: Truper CARBA-50 Battery Charger with key components labeled. This includes the top handle for portability, the robust steel body, the ammeter for monitoring current, and the steel clamps for battery connection.




Image 1.2: Recommended uses for the Truper CARBA-50 battery charger, showing various vehicles and equipment it can charge, such as cars, trucks, boats, and motorcycles.

2. SAFETY INFORMATION

WARNING: Read all safety warnings and instructions before using this product. Failure to follow

the warnings and instructions may result in electric shock, fire, and/or serious injury.

- Always wear appropriate personal protective equipment, including eye protection, when working with batteries.
- Ensure the work area is well-ventilated to prevent the accumulation of explosive gases.
- Never smoke or allow sparks or flames in the vicinity of the battery or charger.
- Connect and disconnect battery clamps only when the charger is unplugged from the power outlet.
- Connect the positive (red) clamp to the positive (+) battery terminal and the negative (black) clamp to the negative (-) battery terminal.
- If charging a battery installed in a vehicle, connect the negative clamp to the vehicle chassis away from the battery and fuel line, if applicable.
- Do not attempt to charge frozen batteries.
- 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 charger is designed for 12V lead-acid batteries only. Do not use it for other battery types.
- Keep out of reach of children.

3. SETUP

1. **Unpack the Charger:** Carefully remove the Truper CARBA-50 battery charger from its packaging. Inspect for any signs of damage.
2. **Prepare the Battery:** Ensure the battery terminals are clean and free of corrosion. If necessary, clean them with a wire brush.
3. **Position the Charger:** Place the charger on a stable, dry, and well-ventilated surface, away from the battery to be charged. Ensure the charger is unplugged from the power outlet.
4. **Identify Controls:** Familiarize yourself with the ammeter, the 50A engine start setting, the 10A fast charge setting, and the 2A slow charge setting switches.

4. OPERATING INSTRUCTIONS

4.1. Charging a Battery

1. **Connect Clamps:**
 - Connect the **red (+)** clamp to the positive (+) terminal of the battery.
 - Connect the **black (-)** clamp to the negative (-) terminal of the battery.
 - *If the battery is in a vehicle:* Connect the red (+) clamp to the positive (+) battery terminal. Connect the black (-) clamp to a metal part of the vehicle chassis, away from the battery and fuel line.
2. **Select Charge Rate:** Use the selector switches on the front panel to choose the desired charge rate:
 - **10 A (Fast Charge):** For quicker charging of larger batteries.
 - **2 A (Slow Charge):** For smaller batteries or for maintaining a charge over a longer period.
3. **Plug In Charger:** Once the clamps are securely connected and the charge rate is selected, plug the charger into a standard 120V AC power outlet.
4. **Monitor Charging:** Observe the ammeter. The needle will indicate the charging current. As the battery charges, the current will gradually decrease.

Note: If the battery is damaged, the charger will not supply current, and the ammeter indicator will not move. This is a safety feature.

5. **Disconnect Charger:** Once charging is complete (ammeter reads near zero or battery is fully charged), first unplug the charger from the AC power outlet. Then, disconnect the black (-) clamp, followed by the red (+) clamp.

4.2. Using the Engine Start Function (50 A)

The 50A engine start function provides a quick burst of power to help start a vehicle with a weak battery. It is not intended for charging a completely dead battery.

1. **Connect Clamps:** Connect the red (+) clamp to the positive (+) battery terminal and the black (-) clamp to the negative (-) battery terminal (or vehicle chassis if in a vehicle).
2. **Select Engine Start:** Set the selector switch to **50 A (Arranque de motor)**.
3. **Plug In Charger:** Plug the charger into a standard 120V AC power outlet.
4. **Start Vehicle:** Attempt to start the vehicle. Do not crank the engine for more than 5 seconds. If the vehicle does not start, wait a few minutes before trying again.
5. **Disconnect Charger:** Once the vehicle starts, immediately unplug the charger from the AC power outlet. Then, disconnect the black (-) clamp, followed by the red (+) clamp.

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Video 4.1: This video demonstrates the physical features of the Truper CARBA-50 battery charger, including its handle, switches for charge selection (50A engine start, 10A fast charge, 2A slow charge), and the battery clamps. It shows how to handle the unit and its components.

5. MAINTENANCE

- **Cleaning:** Keep the charger clean and dry. Wipe the exterior with a soft, damp cloth. Do not use solvents or abrasive cleaners.
- **Cable Inspection:** Regularly inspect the power cord and battery cables for any signs of damage, cuts, or fraying. Replace damaged cables immediately.
- **Storage:** Store the charger in a cool, dry place when not in use. Ensure the cables are neatly coiled and the clamps are not touching each other or any metal surfaces.
- **Ventilation:** Ensure the ventilation openings on the charger are clear of dust and debris to prevent overheating.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Charger not turning on / No power.	<ul style="list-style-type: none">◦ Charger not plugged in.◦ Power outlet malfunction.◦ Internal fuse blown.	<ul style="list-style-type: none">◦ Ensure the charger is securely plugged into a working outlet.◦ Test the outlet with another device.◦ Contact customer support for fuse replacement.

Problem	Possible Cause	Solution
Ammeter not moving / No current supplied.	<ul style="list-style-type: none"> Battery is fully charged. Battery is severely damaged or defective. Incorrect connection of clamps. 	<ul style="list-style-type: none"> This is normal if the battery is already full. If the battery is damaged, the charger will not supply current. Consider replacing the battery. Ensure clamps are correctly connected to the battery terminals (red to +, black to -).
Engine start function not working.	<ul style="list-style-type: none"> Battery is completely dead. Incorrect connection. Vehicle electrical issue. 	<ul style="list-style-type: none"> The 50A function is for assistance, not for completely dead batteries. Try charging the battery first. Verify correct clamp connection. Consult a mechanic if the vehicle still won't start.

7. SPECIFICATIONS

Feature	Value
Brand	TRUPER
Model	CARBA-50
Color	Black
Product Dimensions (D x W x H)	18 x 24 x 13 cm (7.1 x 9.4 x 5.1 inches)
Product Weight	5.04 kg (11.1 lbs)
Output Voltage	12 Volts
Input Voltage	12 Volts <i>(Note: Typically AC mains voltage for chargers. Please verify with product labeling.)</i>
Current Rating (Amperage)	50 Amperes (Engine Start)
Connector Type	Clamps
Number of Ports	2
Manufacturer Part Number	TRUPER-50
UPC	075062406077



Image 7.1: Dimensions of the Truper CARBA-50 battery charger, showing its length, width, and height.

8. WARRANTY AND SUPPORT

8.1. Warranty Information

The Truper CARBA-50 battery charger is guaranteed against manufacturing defects. Truper Group's warranty covers over 25,000 accessories and spare parts, with minimal or no labor cost. It is not necessary to present the purchase receipt to validate the warranty.

For specific warranty terms and conditions, please refer to the official Truper warranty policy or contact customer support.

8.2. Customer Support

For technical assistance, warranty claims, or general inquiries, please contact Truper customer support.

Truper has 177 service centers in Mexico and 15 countries in Latin America.

You can find more information and contact details on the official Truper website: www.truper.com