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ECOBOXX 8A

ECOBOXX Infinity 8A Battery Charger User Manual

Model: 8A

PRODUCT OVERVIEW

The ECOBOXX Infinity 8A Battery Charger is a versatile and intelligent automotive battery charger designed for optimal battery maintenance and charging. It functions as a charger, maintainer, trickle charger, float charger, and battery desulfator, suitable for various 12V battery types including Flooded, Lead-acid, Gel, AGM, and LiFePO4 batteries. Featuring Bluetooth app monitoring, it provides real-time data and comprehensive protection for your vehicle's battery.





Image: The ECOBOXX Infinity 8A Battery Charger connected to a smartphone displaying its charging interface and battery status.

SAFETY INFORMATION

- Always read the entire manual before using the charger.
- Ensure proper ventilation during charging to prevent gas accumulation.
- Wear eye protection and gloves when working with batteries.
- Do not charge frozen batteries.
- Keep the charger away from water and moisture, despite its IP65 rating, to ensure longevity and safe operation.
- Disconnect the AC power before connecting or disconnecting battery clamps.
- This charger is designed for 12V batteries. Do not attempt to charge other voltage batteries.

COMPLETE PROTECTION



Reverse Polarity Protection



Low Voltage Protection



Short-Circuit Protection



Over Voltage Protection



Over Charge Protection



Over Temperature Protection



Over Current Protection



IP65



Image: Visual representation of the comprehensive protection features built into the ECOBOXX Infinity charger, ensuring safe operation.

PACKAGE CONTENTS AND DIMENSIONS

Verify that all components are present in the package:

- ECOBOXX Infinity 8A Battery Charger Unit
- Battery Clamps (Red and Black)
- AC Power Cord
- User Manual (this document)

WHAT'S IN THE BOX & DIMENSIONS



Double black output cable: 200 cm / 6.60 ft



Double black input cable: 200 cm / 6.60 ft



Net Weight: 0.74 KG / 1.63 lbs

Image: An illustration detailing the contents of the ECOBOXX Infinity charger package, including the charger unit, output cables with clamps, and input power cable, along with its physical dimensions.

The charger unit measures approximately 7.7 inches (195 mm) in length, 3.7 inches (95 mm) in width, and 2.1 inches (55 mm) in height. It weighs approximately 1.9 pounds (0.74 kg).

SETUP AND CONNECTION

Follow these steps to properly set up and connect your ECOBOXX Infinity 8A Battery Charger:

1. **Step 1: Plug the charger into a standard AC outlet/socket.** Connect the charger's AC power cord to a suitable 120V AC power source.
2. **Step 2: Connect the battery.** Attach the red positive (+) clamp to the positive battery terminal and the black negative (-) clamp to the negative battery terminal. Ensure a secure connection.
3. **Step 3: Press the "MODE" key to change the charging current and battery type.** Once connected, the charger will power on. Use the MODE button to select the desired charging current (2A or 8A) and battery type (STD, AGM, or Li).



Image: The ECOBOXXX Infinity 8A Battery Charger showing its main unit, battery clamps (red and black), and the AC power plug, illustrating the components involved in setting up the charger.

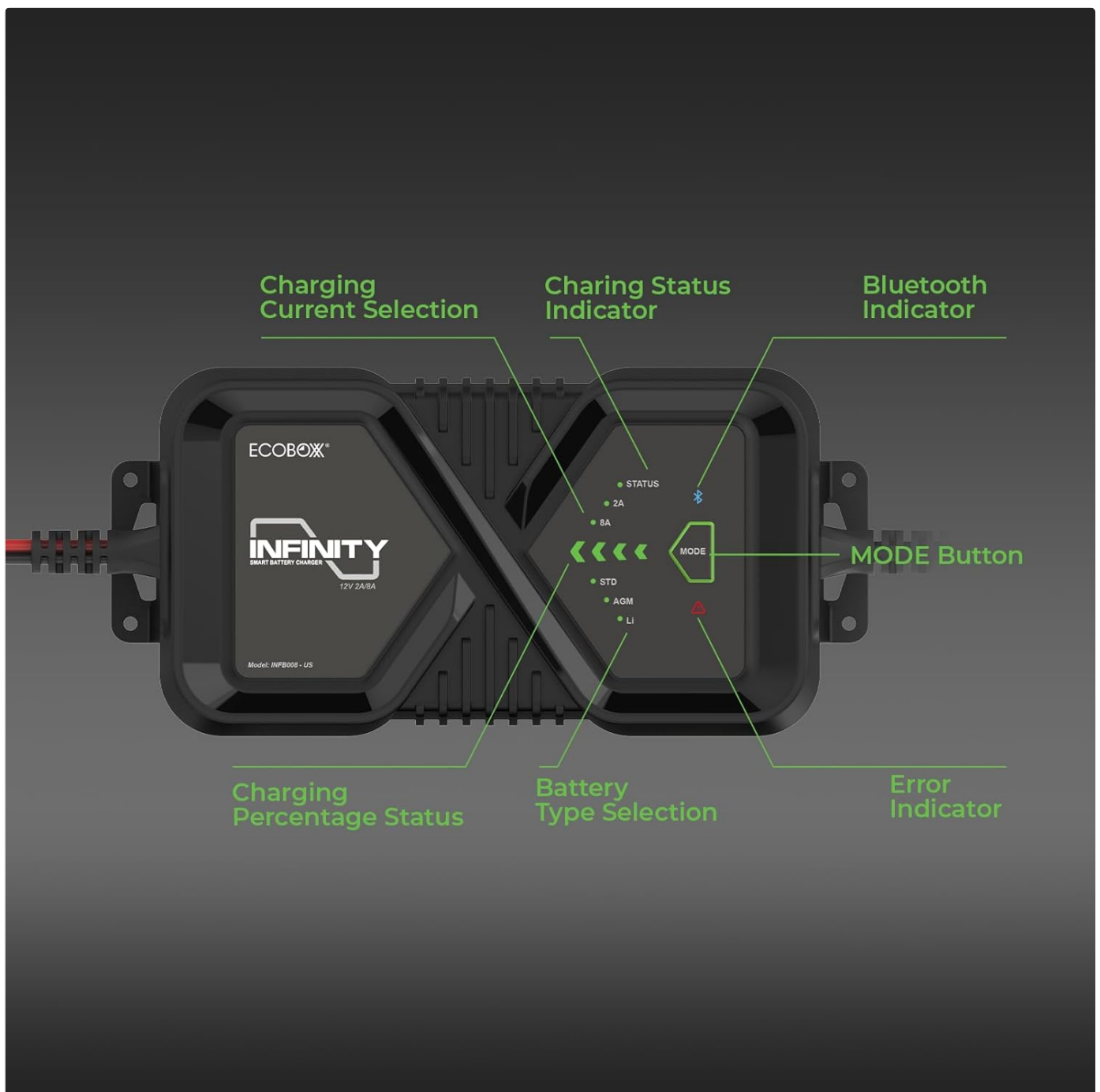


Image: A detailed diagram of the ECOBOXX Infinity charger's control panel, highlighting the charging current selection (2A/8A), charging status indicators, Bluetooth indicator, MODE button, charging percentage status, battery type selection (STD/AGM/Li), and error indicator.

Installation Video Guide

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Video: An official installation guide demonstrating the steps to connect and set up the ECOBOXX Infinity 8A Battery Charger. This video covers plugging the charger into an AC outlet, connecting it to a battery, and selecting the appropriate charging mode.

OPERATING THE CHARGER

8-Stage Multi-Charging Process

The ECOBOXX Infinity charger utilizes an advanced 8-stage charging process to optimize battery health and longevity. This process includes:

1. **Battery Test and Precharge:** Initial assessment of battery condition.

2. **Desulfation (STD/AGM):** Breaks down lead sulfate crystals that can form on battery plates.
3. **Soft Start:** Gently introduces current to prevent damage to deeply discharged batteries.
4. **Bulk Charging:** Charges the battery to approximately 80% capacity at maximum current.
5. **Absorption:** Charges the battery to 100% capacity at a decreasing current.
6. **Analysis:** Checks if the battery can hold a charge.
7. **Float:** Maintains the battery at full charge with a constant voltage.
8. **Pulse (STD/AGM):** Applies small pulses of current to keep the battery optimized during long-term maintenance.

The charger can revive dead batteries: STD/AGM batteries from 0.8V and Li batteries from 0V.

Bluetooth App Monitoring (InfinityLink)

The Infinity mobile app provides comprehensive real-time data and control over your charging process. Key features include:

- **Charging History:** View past charging cycles and performance.
- **Current Battery Status:** Monitor voltage, current, and charging phase.
- **Error Warnings:** Receive alerts for any issues during charging.
- **Device Settings:** Adjust charger parameters and update firmware.

SMART BLUETOOTH APP

Device Settings

Firmware upgrade

Charging Status

Charging History



Image: Multiple screenshots of the InfinityLink mobile application interface, demonstrating its various functionalities such as device settings, charging status, charging history, and firmware upgrade options.

Download the "InfinityLink" app from Google Play Store or Apple App Store.

Wide Application

This charger is suitable for a wide range of 12V vehicles and battery types, including:

- ATVs and Motorcycles
- Cars and SUVs
- Tractors and Minibuses
- Trucks and Boats
- RVs

WIDE APPLICATION ONE CHARGER THAT DOES IT ALL

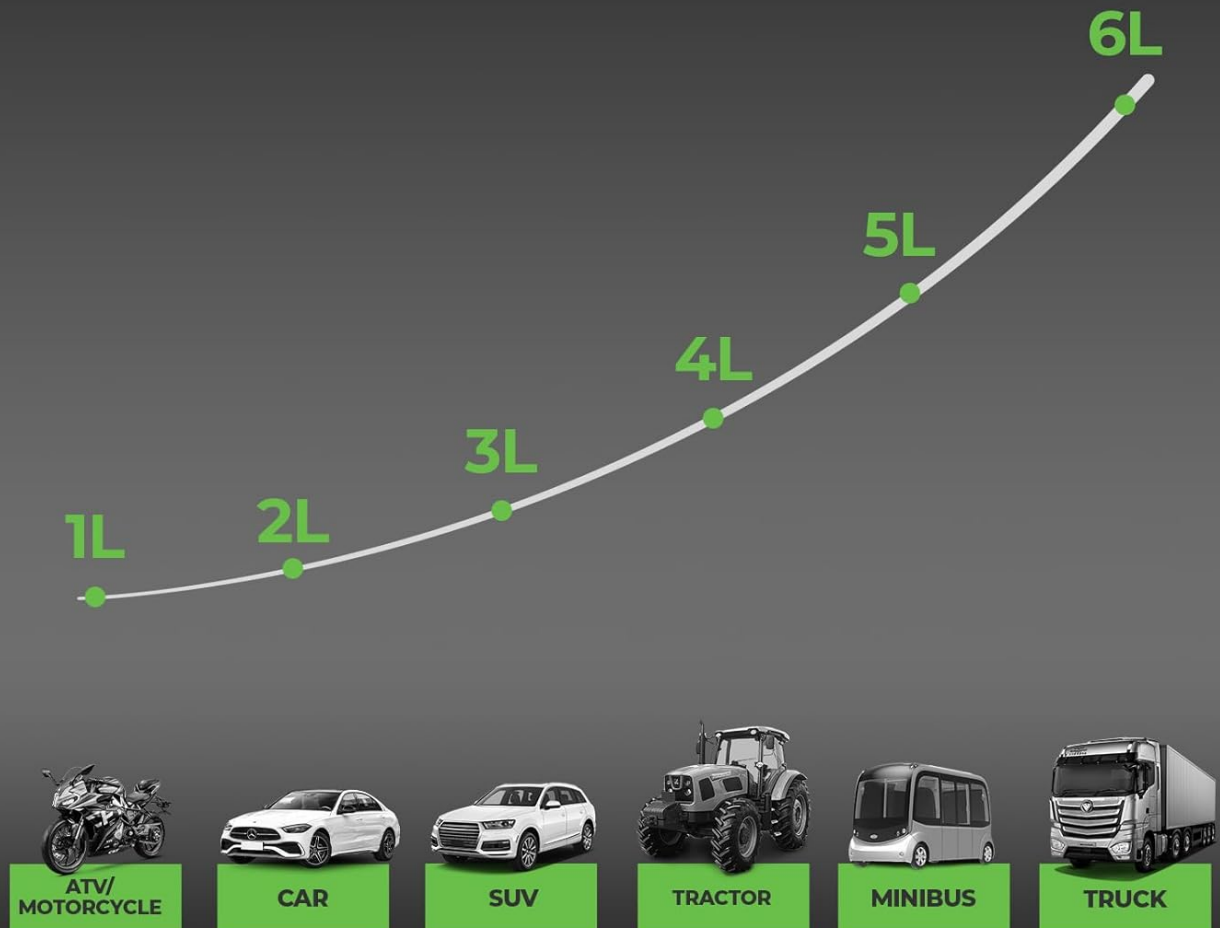


Image: A visual chart demonstrating the broad compatibility of the ECOBOXX Infinity charger with different vehicle types and their corresponding battery capacities.

MAINTENANCE

To ensure the longevity and optimal performance of your ECOBOXX Infinity Battery Charger, follow these maintenance guidelines:

- **Cleaning:** Disconnect the charger from both AC power and the battery before cleaning. Use a soft, dry cloth to wipe down the exterior. Do not use harsh chemicals or abrasive cleaners.
- **Storage:** Store the charger in a cool, dry place when not in use. Ensure cables are neatly coiled and not kinked.
- **Cable Inspection:** Regularly inspect the AC power cord and battery clamps for any signs of damage, fraying, or corrosion. Replace if necessary.
- **IP65 Rating:** The charger is rated IP65, providing protection against dust and low-pressure water jets. While it offers protection, avoid submerging the unit or exposing it to high-pressure water.

TROUBLESHOOTING

If you encounter issues with your ECOBOXX Infinity Battery Charger, refer to the following common troubleshooting tips:

- **Charger Not Turning On:**
 - Ensure the AC power cord is securely plugged into a live outlet.
 - Check if the outlet is functioning by plugging in another device.
- **No Charging Indication:**
 - Verify that the battery clamps are correctly connected to the positive (+) and negative (-) terminals.
 - Ensure the battery voltage is within the charger's operating range (e.g., 0.8V for STD/AGM, 0V for Li).
 - Check the selected battery type and charging current using the MODE button.
- **Error Indicator On:**
 - An error light typically indicates a problem such as reverse polarity, short-circuit, or over-voltage. Disconnect the charger, rectify the issue (e.g., correct clamp connection), and reconnect.
 - If the error persists, the battery might be severely damaged or incompatible.
- **Bluetooth Connectivity Issues:**
 - Ensure Bluetooth is enabled on your smartphone and the InfinityLink app has necessary permissions.
 - Make sure you are within range of the charger.
 - Try restarting both the charger (by unplugging and replugging) and the app.
- **Battery Not Fully Charging:**
 - The charger is designed for maintenance and charging, not necessarily to "resurrect" severely damaged or dead batteries that cannot hold a charge.
 - Ensure the battery capacity is within the charger's supported range (10-250Ah for 8A model).

For persistent issues not covered here, please contact ECOBOXX customer support.

SPECIFICATIONS

Feature	Detail
Model Number	8A
Input Voltage	120 Volts
Output Voltage	12 Volts (DC)
Charging Current	Switchable 2A / 8A
Supported Battery Types	Flooded, Lead-acid, Gel, AGM, LiFePO4
Battery Capacity (STD/AGM)	10-160Ah
Battery Capacity (LiFePO4)	2-160Ah
Charging Stages	8-Stage Multi-Charging

Feature	Detail
Protection Rating	IP65 (Dust and low-pressure water protected)
Product Dimensions	2.1 x 3.7 x 7.7 inches (55 x 95 x 195 mm)
Item Weight	1.9 pounds (0.74 kg)
Bluetooth Connectivity	Yes, with InfinityLink App

WARRANTY AND SUPPORT

The ECOBOXX Infinity 8A Battery Charger comes with a **3-year warranty**, providing peace of mind regarding its quality and durability. This warranty covers defects in materials and workmanship under normal use.

For warranty claims, technical support, or any inquiries, please contact ECOBOXX customer service. Refer to the product packaging or the official ECOBOXX website for the most current contact information.