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> BETUMODA Level 1 & 2 EV Charger Instruction Manual (Model: 32A EV CHARGER)

BETUMODA 32A EV CHARGER

BETUMODA Level 1 & 2 EV Charger Instruction Manual

Model: 32A EV CHARGER

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your BETUMODA Level 1 & 2 Portable EV Charger. Please read this manual thoroughly before using the product and retain it for future reference.

The BETUMODA 32A Portable EV Charger is designed to provide flexible and efficient charging for your electric vehicle or plug-in hybrid. It supports both Level 1 (110V) and Level 2 (240V) charging, offering adjustable current settings and a delay timer function.



Image: The BETUMODA 32A Level 1 & 2 Portable EV Charger connected to an electric vehicle outside a residence.

2. SAFETY INFORMATION

Your safety is paramount. This charger is equipped with multiple safety features. Adhere to the following guidelines to ensure safe operation:

- Ensure the charging cable is free from damage before each use. Do not use if damaged.
- Always connect the charger to a properly grounded outlet.
- When using the NEMA 5-15 plug (Level 1 charging), set the current to 16A or lower to prevent circuit overload.
- Do not immerse the control box or charging connector in water. The unit is IP65 rated for water and dust resistance, but not for submersion.
- Avoid using extension cords or adapters not supplied with the charger, as this may lead to overheating or damage.
- Keep children and pets away from the charging area during operation.
- Do not attempt to open or repair the charger. Contact customer support for assistance.

Integrated Protection Features:

The BETUMODA EV Charger is engineered with 10 levels of intelligent protection, certified to CE and FCC standards, including:

- **IP65 Waterproof & Dustproof:** Protection against water jets and dust ingress.
- **Grounding Protection:** Ensures proper electrical grounding.
- **Lightning Protection:** Safeguards against electrical surges from lightning.
- **Overcharge Protection:** Prevents battery overcharging.
- **Undervoltage Protection:** Protects against low voltage conditions.
- **Overheat Protection:** Monitors and prevents excessive temperature.
- **Leakage Protection:** Detects and prevents electrical leakage.
- **Overcurrent Protection:** Guards against excessive current flow.
- **Overvoltage Protection:** Protects against high voltage conditions.
- **Short-Circuit Protection:** Prevents damage from short circuits.



Image: Visual representation of the 10 intelligent protection features, including IP65, grounding, lightning, overcharge, undervoltage, overheat, leakage, overcurrent, overvoltage, and short-circuit protection.

All-Weather Protection



Image: Illustrations of the charger's all-weather protection, showing its resilience in rain (IP65 waterproof), snow (-22°F), extreme heat (+113°F), and dusty environments (IP65 dustproof).

3. PACKAGE CONTENTS

Please verify that all items are present in your package:

- BETUMODA 32Amp EV Charger (with NEMA 14-50 plug attached)
- User Manual
- NEMA 5-15 Plug (adapter)
- Fixed Nails (screws and wall anchors for mounting)
- Control Box Holder
- Portable Carry Bag

PACKING LIST

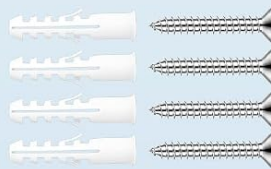
32Amp EV Charger



User Manual



Nema 5-15 Plug



Fixed nail



Control Box Holder



Portable
Carry Bag

Image: A visual breakdown of the package contents, including the main charger unit, user manual, NEMA 5-15 adapter, mounting hardware, control box holder, and a portable carry bag.

4. SETUP

The BETUMODA EV Charger is designed for easy installation without professional wiring. It can be used as a portable charger or mounted for convenience.

Mounting the Control Box (Optional):

1. Choose a suitable location near your charging outlet, ensuring it is protected from direct heavy rain and accessible.
2. Use the provided fixed nails (screws and wall anchors) to securely attach the Control Box Holder to the wall.
3. Slide the charger's control box into the holder.

Connecting to Power:

The charger supports both NEMA 14-50 (240V) and NEMA 5-15 (110V) outlets.

- **For Level 2 Charging (240V):** Plug the NEMA 14-50 connector directly into a compatible 240V NEMA 14-50 outlet.
- **For Level 1 Charging (110V):** Attach the NEMA 5-15 adapter plug to the charger's NEMA 14-50 plug, then insert the NEMA 5-15 plug into a standard 110V household outlet. **Important:** When using the NEMA 5-15 plug, ensure the current setting on the charger is 16A or lower.

Combined Level 1 & Level 2 EV Charger



Image: Visual guide for connecting the charger for Level 2 (NEMA 14-50, 240V 32A) and Level 1 (NEMA 5-15, 120V 16A) charging, highlighting the current limit for Level 1.

5. OPERATING INSTRUCTIONS

The BETUMODA EV Charger features an intuitive touch LED display for adjusting settings.

Connecting to Your Vehicle:

1. Ensure the charger is securely plugged into the power outlet.
2. Open your vehicle's charging port.

3. Insert the J1772 charging connector firmly into your vehicle's charging port until it clicks into place.
4. The charger will automatically detect the connection and display charging status.

Adjusting Current Settings:

The charger allows you to select from 5 current levels: 8A, 13A, 16A, 24A, and 32A.

1. **Enter Selection Mode:** Long press either button on the control box. The current value on the LED display will turn red, indicating it's ready for adjustment.
2. **Adjust Current:** Short press either button to cycle through the available current options (8A/13A/16A/24A/32A).
3. **Confirm Selection:** The charger will automatically confirm the selected current after a few seconds of inactivity, or you can long press a button again to exit selection mode.

Using the Delay Timer:

The delay timer allows you to schedule charging to begin after a set number of hours (1-12 hours), ideal for off-peak charging.

1. **Enter Selection Mode:** Long press either button on the control box.
2. **Select Delay Time:** Short press either button until the delay time (e.g., "1H", "2H") is displayed and turns red.
3. **Adjust Delay:** Short press either button to cycle through delay options (1-12 hours).
4. **Confirm Selection:** The charger will automatically confirm the selected delay after a few seconds of inactivity. Charging will begin after the set delay period.

Adjustable Current & Delay Timer

Full Control at Your Fingertips



Long Press Either Button:

Enter Selection Mode (Value turns red)

Short Press:

Adjust Current or Time Accordingly



Adjustable Current

(8A 13A 16A 24A 32A)

◀ 16A 24A **32A** 8A ▶



Delay Charging

<1H-12H>

◀ 11:00 **12:00** 1:00 ▶

Image: The charger's control panel displaying current settings and delay timer options, with instructions on how to long press or short press buttons to adjust settings.

Charging Performance Examples:

Estimated full charging times for a Chevrolet Equinox EV (65kWh battery) at 240V:

- **8A:** Approximately 33.8 hours
- **13A:** Approximately 21 hours
- **16A:** Approximately 17 hours
- **24A:** Approximately 11 hours
- **32A:** Approximately 8.4 hours

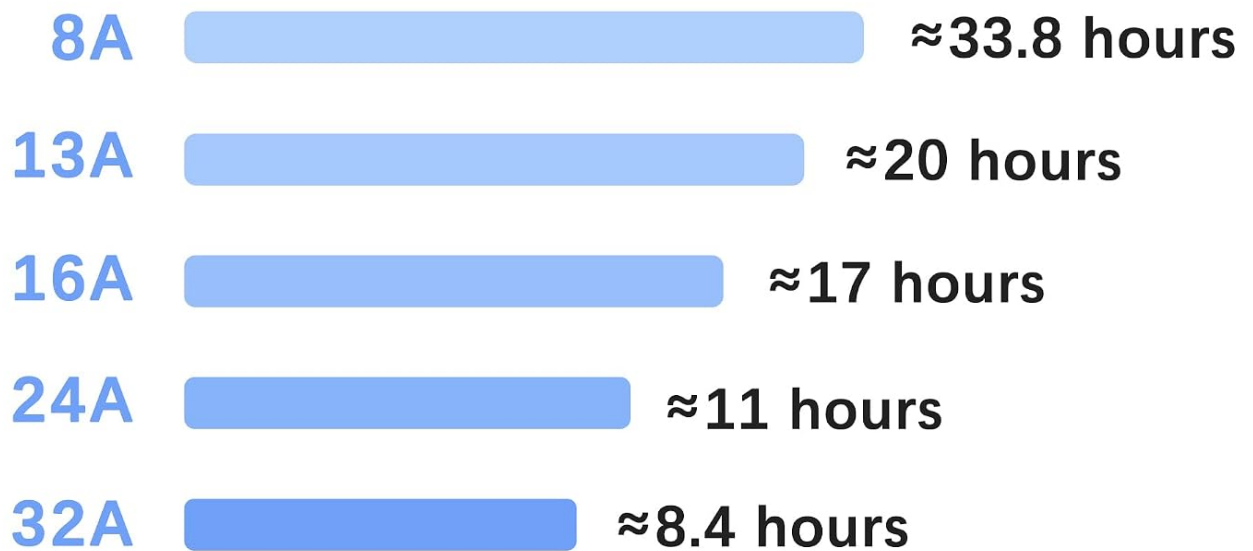
Note: Actual charging time may vary due to battery condition, ambient temperature, and vehicle charging efficiency.

Efficient Charging at Various Currents

Supports Level 1 & Level 2 Charging | Adjustable Current Range: 8A–32A

Chevrolet Equinox EV

 65 kWh



Level 2

| Operating at 240V

Image: A bar chart illustrating the estimated charging duration for a Chevrolet Equinox EV (65 kWh) at various amperage settings (8A to 32A) when operating at 240V.

Fast Charging for Your EV

4X Faster Than Level 1 Charging



8A 3.52MPH

13A 5.72MPH

16A 7.04MPH

MPH = Miles of driving added per hour



8A 7.68MPH

13A 12.48MPH

16A 15.36MPH

24A 23.04MPH

32A 30.72MPH



Image: An infographic detailing the estimated miles of driving range added per hour (MPH) at different amperage settings for both 110V and 240V charging.

6. MAINTENANCE

Proper maintenance ensures the longevity and safe operation of your EV charger.

- **Cleaning:** Wipe the control box and cable with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.
- **Storage:** When not in use, store the charger in its portable carry bag in a dry, cool place, away from direct sunlight and extreme temperatures.
- **Cable Inspection:** Regularly inspect the charging cable and connectors for any signs of wear, cuts, or damage. If damage is found, discontinue use immediately and contact customer support.
- **Connector Care:** Keep the charging connector free from dirt, dust, and moisture. Use the protective cap when not connected to a vehicle.

7. TROUBLESHOOTING

If you encounter issues with your BETUMODA EV Charger, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Charger not powering on	No power from outlet; loose connection	Check the power outlet and ensure the charger is firmly plugged in. Test the outlet with another device.
Charging not starting	Vehicle not properly connected; delay timer active; vehicle fault	Ensure the J1772 connector is fully inserted into the vehicle. Check if the delay timer is set. Consult your vehicle's manual for charging issues.
Error message on display	Internal fault; overcurrent/overvoltage protection triggered	Note the error code (if any). Unplug the charger from the wall and vehicle, wait 5 minutes, then reconnect. If the error persists, contact customer support.
Slow charging speed	Current setting too low; Level 1 charging on 110V; vehicle limitations	Adjust the current setting to a higher amperage (if safe for your outlet). Ensure you are using a 240V outlet for faster Level 2 charging.
NEMA 5-15 plug tripping breaker	Current setting too high for 110V circuit	Reduce the current setting to 16A or lower when using the NEMA 5-15 plug on a 110V circuit.

If these steps do not resolve the issue, please contact BETUMODA customer support for further assistance.

8. SPECIFICATIONS

Feature	Detail
Brand	BETUMODA
Model	32A EV CHARGER
Item Model Number	EVC-20-75-US
Charging Level	Level 1 & Level 2
Input Voltage	110V-240V
Current Rating	Adjustable: 8A/13A/16A/24A/32A
Maximum Power Output	Up to 7.68 kW (at 32A, 240V)
Connector Type	SAE J1772
Power Plugs Included	NEMA 14-50, NEMA 5-15 (adapter)
Cable Length	25 feet
Waterproof Rating	IP65
Operating Temperature	-22°F to +113°F (-30°C to +45°C)

Feature	Detail
Certifications	CE, FCC
Item Weight	11.84 pounds
Package Dimensions	16.65 x 13.89 x 5.94 inches

9. WARRANTY AND SUPPORT

BETUMODA is committed to providing high-quality products. For warranty information, technical support, or any questions regarding your EV charger, please refer to the contact information provided in your product packaging or visit the official BETUMODA website.

Please have your model number (32A EV CHARGER) and purchase date available when contacting support.

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Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

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