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› BETUMODA Level 1&2 EV Charger (16A, 25FT) - Instruction Manual

BETUMODA EVC-20-75-US

BETUMODA Level 1&2 EV Charger (16A, 25FT) - Instruction Manual

Model: EVC-20-75-US

1. PRODUCT OVERVIEW

The BETUMODA Level 1&2 EV Charger is designed for efficient and flexible electric vehicle charging. This portable charger supports both 110V (Level 1) and 240V (Level 2) power sources, offering adjustable current settings from 8A to 16A and an intelligent delay timer. It is compatible with all SAE J1772 electric vehicles and plug-in hybrids, with a Tesla adapter required for Tesla vehicles. The charger features a 2.8-inch Touch LED display for real-time charging information and advanced safety protections.

2. SETUP

2.1 Package Contents

Before beginning installation, verify that all components are present in the package:

- BETUMODA Level 1&2 EV Charger Unit (25FT cable)
- NEMA 5-15 Plug Adapter
- Control Box Holder
- Fixed Nails/Screws for Holder Installation
- Portable Carry Bag
- User Manual



This image displays all items included in the package: the main EV charger unit with its cable, a NEMA 5-15 adapter plug, the user manual, a control box holder for wall mounting, screws for installation, and a portable carry bag for convenience.

2.2 Initial Preparation and Control Box Installation

Before connecting the charger to your vehicle, ensure the charging connector's silicone cover is removed. The control box can be mounted to a wall using the provided holder and screws for stability and organization.

1. Carefully remove the silicone protective cover from the SAE J1772 charging connector.
2. Select a suitable location for the control box holder, ensuring it is near a compatible power outlet and within reach of your vehicle's charging port.
3. Secure the control box holder to the wall using the provided fixed nails/screws.
4. Align the sliding hole on the back of the charger's control box with the holder and slide it into place to secure it.

This video provides a visual guide to unboxing the BETUMODA portable EV charger. It shows how to remove the protective silicone cover from the charging connector and how to align and install the control box holder onto a wall, preparing the charger for use.

2.3 Connecting to Power

The BETUMODA EV Charger supports both NEMA 5-15 (110V) and NEMA 6-20 (240V) outlets. Use the appropriate plug for your power source.

- For Level 1 charging (110V), use the NEMA 5-15 plug.**Note:** The 5-15 adapter is compatible only with 5-15 outlets and should not be used above 16A.
- For Level 2 charging (240V), use the NEMA 6-20 plug.

Nema 5-15 Plug & Nema 6-20 Plug

NEMA 5-15



NEMA 6-20



 This adapter is only for 5-15 plug.
Do not set current exceed 16A.



NEMA5-15



NEMA5-20



Nema 5-15P to
Nema 6-20P Adapter



NEMA6-20



This image clarifies the different power connections for the charger. It shows a NEMA 5-15 wall outlet and its compatible plug, a NEMA 6-20 wall outlet and its plug, and an adapter that converts a NEMA 5-15 plug to a NEMA 6-20P adapter, highlighting the charger's dual compatibility.

3. OPERATING INSTRUCTIONS

3.1 Display Overview

The 2.8-inch Touch LED display on the control box provides real-time information including voltage, current, power load, charging time, and status. This allows for comprehensive monitoring of your charging session.

3.2 Adjusting Current Settings

The charger allows you to adjust the charging current to suit your needs (8A, 10A, 13A, 16A).

1. **To select current mode:** Long press the 'A' button on the control box. The current value on the screen will turn red, indicating that the current mode is selected.
2. **To switch current values:** While in current selection mode (red display), short press the 'A' button to cycle through 8A, 10A, 13A, and 16A.

3. The setting is automatically saved after a few seconds of inactivity or when charging begins.

This video tutorial shows the process of switching current settings on the BETUMODA EV charger. It demonstrates how to long-press the 'A' button to select the current mode and then short-press to cycle through available current values (8A, 10A, 13A, 16A), confirming the setup is complete.

3.3 Setting the Delay Timer

The intelligent delay timer allows you to schedule charging from 1 to 12 hours in advance.

1. **To activate timer mode:** Long press the timer button (clock icon) on the control box. The timer value on the screen will become adjustable.
2. **To adjust delay time:** Short press the timer button to cycle through delay times from 1 to 12 hours.
3. The charger will begin charging after the set delay period has elapsed.

3.4 Starting and Stopping Charging

1. Ensure the charger is properly connected to a power outlet and the desired current/timer settings are configured.
2. Insert the SAE J1772 charging connector into your vehicle's charging port. The charger will automatically initiate the charging process or begin after the set delay.
3. To stop charging, press the release button on the charging connector and remove it from the vehicle. Alternatively, disconnect the charger from the power outlet.



Charge at Your Own Pace

Charge for 1 hour Travel about



8A	3.52MPH
10A	4.4MPH
13A	5.72MPH
16A	7.04MPH



8A	7.68MPH
10A	9.6MPH
13A	12.48MPH
16A	15.36MPH



This infographic illustrates the charging efficiency of the BETUMODA EV charger. It presents a table showing the approximate miles per hour added to an EV battery at various current settings (8A, 10A, 13A, 16A) for both 110V (Level 1) and 220V (Level 2) power sources, helping users understand expected charging speeds.

4. MAINTENANCE

4.1 General Care

To ensure the longevity and optimal performance of your BETUMODA EV Charger, follow these general maintenance guidelines:

- Keep the charger clean and free from dust and debris. Use a soft, dry cloth for cleaning. Do not use harsh chemicals or abrasive materials.
- Regularly inspect the charging cable and connectors for any signs of damage, wear, or corrosion. If any damage is observed, discontinue use and contact customer support.
- Avoid bending or kinking the cable excessively, as this can damage internal wiring.

4.2 Environmental Conditions

The charger is designed with an IP65 rating, providing protection against dust and water splashes. It has been tested for performance in various temperatures.



Use in Any Climater

**IP66**
IP66 Waterproof & Type 4 Degree Protection

**+122°F**
High Temperature Test

**-22°F**
Low Temperature Test

**Dustproof**
Dustproof Protection

This image highlights the robust design of the BETUMODA EV charger, showcasing its IP66 waterproof and dustproof protection. It also illustrates the charger's ability to operate reliably in extreme temperatures, from high heat (+122°F) to freezing cold (-22°F), ensuring performance in various climates.

- While the charger is rated IP65 for water and dust resistance, it is recommended to avoid prolonged exposure to heavy rain or direct water jets.
- Operate and store the charger within the specified temperature ranges to ensure optimal performance and safety.

5. TROUBLESHOOTING

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

5.1 Charging Not Initiating

- **Check Power Connection:** Ensure the charger's power plug is securely inserted into a functional wall outlet.
- **Check Vehicle Connection:** Verify that the SAE J1772 connector is fully and correctly inserted into your vehicle's

charging port.

- **Review Display:** Check the LED display for any error messages or indicators.
- **Timer Setting:** If a delay timer is set, charging will not start until the programmed time has elapsed.

5.2 Interrupted Charging

The charger is equipped with advanced protection features that may interrupt charging for safety reasons:

- **Overheat Protection:** If the charger or vehicle components become too hot, the charger may pause or stop. Allow it to cool down before resuming.
- **Overvoltage/Overcurrent Protection:** If voltage or current levels exceed safe limits, the charger will stop. Ensure your power source is stable and within specifications.
- **Ground Fault:** If a ground fault is detected, the charger will cease operation. Disconnect and inspect the setup.

5.3 Display Issues

- If the display is blank or unresponsive, ensure the charger is receiving power. Try unplugging and re-plugging the charger.

For persistent issues or error codes not listed, please refer to the detailed user manual or contact BETUMODA customer support.

6. SPECIFICATIONS

Feature	Specification
Brand	BETUMODA
Model Number	EVC-20-75-US
Input Voltage	110V - 240V
Output Voltage	110V - 240V
Amperage	8A, 10A, 13A, 16A (Adjustable)
Cable Length	25 Feet
Plug Compatibility	NEMA 5-15, NEMA 6-20
EV Connector Type	SAE J1772
Ingress Protection (IP) Rating	IP65
Certifications	CE, FCC
Item Weight	7.45 pounds
Package Dimensions	15.55 x 12.13 x 5.28 inches

7. WARRANTY AND SUPPORT

BETUMODA products are manufactured to high-quality standards. For warranty information, please refer to the documentation included with your purchase or visit the official BETUMODA website. If you require technical assistance, have questions about product operation, or need to report an issue, please contact BETUMODA customer support

through the vendor's contact information provided at the point of purchase or on their official website.

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Question

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Details

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

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