

BETUMODA 24FT-16A EV CHARGER

BETUMODA Portable Level 1&2 EV Charger User Manual

Model: 24FT-16A EV CHARGER | Brand: BETUMODA

1. SAFETY PRECAUTIONS

Please read and understand all safety instructions before using the BETUMODA Portable EV Charger. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Electrical Safety:** Always ensure the power outlet is properly grounded and rated for the charger's specifications (110V/120V or 220V/240V). Do not use damaged cables or plugs.
- **Water and Moisture:** The charger control box is IP65 waterproof, protecting against normal weather conditions. However, avoid submerging the unit in water or using it during heavy rain without adequate shelter. Ensure all connections are dry before use.
- **Children and Pets:** Keep the charger and cables out of reach of children and pets during operation and storage.
- **Ventilation:** Ensure adequate ventilation around the control box during charging to prevent overheating.
- **Overcurrent Protection:** Do not attempt to bypass or modify the charger's built-in safety features. The 5-15 adapter is compatible only with 5-15 outlets and should not be used above 16A.
- **Certifications:** This product adheres to CE and FCC safety certification standards, incorporating overvoltage safeguards, overload prevention, short-circuit defense, grounding security, and earth leakage protection.

2. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- BETUMODA Portable EV Charger (Control Box with integrated NEMA 6-20 plug and J1772 connector)
- NEMA 5-15 Adapter Plug
- Control Box Holder
- Fixed Nails/Screws for holder installation
- Portable Carry Bag
- User Manual (this document)

Package List



Image: All components of the BETUMODA Portable EV Charger package, including the charger unit, NEMA 5-15 adapter, control box holder, mounting hardware, carry bag, and user manual.

3. PRODUCT OVERVIEW

The BETUMODA Portable EV Charger is designed for convenient Level 1 and Level 2 charging. It features an adjustable current, a smart LED display, and a durable 24-foot cable.

- **Control Box:** Houses the smart charging electronics and the 2.8-inch Touch LED display.
- **Charging Cable:** A 24-foot cable providing ample reach from the power outlet to your vehicle.
- **J1772 Connector:** The standard charging connector for most North American electric vehicles.
- **NEMA 6-20 Plug:** For Level 2 (220V/240V) charging.
- **NEMA 5-15 Adapter:** For Level 1 (110V/120V) charging, connecting to the NEMA 6-20 plug.



Image: An overhead view of the BETUMODA Portable EV Charger, showing the control box, coiled 24-foot cable, NEMA 5-15 adapter, and J1772 charging connector.

4. SETUP AND INSTALLATION

The BETUMODA EV Charger is designed for easy setup. You can use it as a portable unit or mount the control box for a more permanent solution.

4.1 Connecting to Power

- **For Level 2 (220V/240V) Charging:** Use the integrated NEMA 6-20 plug. Insert it directly into a compatible 220V/240V NEMA 6-20 outlet.
- **For Level 1 (110V/120V) Charging:** Attach the NEMA 5-15 adapter plug to the NEMA 6-20 plug. Then, insert the NEMA 5-15 adapter into a standard 110V/120V NEMA 5-15 outlet.

Warning: The 5-15 adapter is compatible only with 5-15 outlets and should not be used above 16A. Ensure the outlet is capable of handling the selected current.

Portable level 1 & 2 EV Charger

Conveniently Home Charging



Image: Illustration showing the NEMA 6-20 plug and the NEMA 5-15 adapter, demonstrating how to connect them for Level 1 charging and how to use the NEMA 6-20 plug directly for Level 2 charging.

4.2 Mounting the Control Box (Optional)

The included control box holder allows for wall-mounting. Use the fixed nails/screws to secure the holder to a suitable surface, then slide the control box into the holder.

Video: This video demonstrates the physical components of the BETUMODA Portable EV Charger, including the control box, NEMA 6-20 plug, NEMA 5-15 adapter, and the control box holder. It shows how to remove the silicone cover from the J1772 connector and how to install the control box into its wall-mounted holder.

5. OPERATING INSTRUCTIONS

5.1 Starting Charging

1. Ensure the charger is properly connected to a power outlet. The display will illuminate.
2. Remove the protective silicone cover from the J1772 charging connector.
3. Press the button on the J1772 connector and firmly insert it into your electric vehicle's charging port. Ensure it clicks into place.
4. The charger will initiate a self-check, and then charging will begin automatically unless a delayed start is set.

5.2 Adjusting Current Settings

The charger allows you to adjust the charging current to 8A, 10A, 13A, or 16A. This can be done before plugging into the car or within a few minutes of plugging in.

- With the charger powered on but not actively charging the vehicle, press the 'A' (Ampere) button on the control box to cycle through the available current settings.
- Select the desired current. The display will show the chosen amperage.

Control Box Introduction

Adjustable Current

(8A-10A-13A-16A)

▲
8A
10A
13A
16A
▼



Delay Charging

(1H-12H)

▲
8:00
9:00
10:00
11:00
12:00
▼



Image: The BETUMODA EV charger control box display, highlighting the adjustable current settings (8A, 10A, 13A, 16A) and the delay charging timer function.

5.3 Delayed Start Timer

To take advantage of off-peak electricity hours, you can set a delayed start timer from 1 to 12 hours.

- With the charger powered on but not actively charging the vehicle, press the 'Timer' button on the control box.
- Each press will increase the delay by one hour, up to a maximum of 12 hours.
- The charger will begin charging after the set delay period has elapsed.

Charge Smart, Save More

Schedule Charging for 0-12 Hours During Off-Peak Times



Image: An electric vehicle charging at home, with a graphic illustrating the concept of scheduling charging during off-peak hours to save on electricity costs.

5.4 Stopping Charging

1. If your vehicle has a stop charging function, activate it first.
2. Press the button on the J1772 connector to release the lock, then pull the connector out of the vehicle's charging port.
3. Disconnect the charger from the power outlet.
4. Replace the protective silicone cover on the J1772 connector.

6. DISPLAY INFORMATION

The 2.8-inch Touch LED display provides real-time charging status and information:

- **Current Temperature:** Displays the operating temperature of the control box.
- **Charging Mode:** Indicates the selected amperage (e.g., 16A).
- **Time:** Shows the elapsed charging time or remaining delay time.
- **Energy:** Displays the total energy (kWh) delivered to the vehicle.
- **Power:** Shows the current charging power (kW).
- **Voltage:** Indicates the input voltage (V).
- **Current:** Displays the actual charging current (A).
- **State:** Shows the current status (e.g., "Charging Mode", "Delayed Start").

Control Box Introduction

Adjustable Current

(8A-10A-13A-16A)

▲
8A
10A
13A
16A
▼



Delay Charging

(1H-12H)

▲
8:00
9:00
10:00
11:00
12:00
▼



Image: A close-up of the BETUMODA EV charger's LED display, showing various charging parameters such as temperature, current mode, time, energy, power, voltage, current, and charging state.

7. COMPATIBILITY

The BETUMODA Portable EV Charger is fully compatible with North American J1772 electric vehicles and plug-in hybrids.

- **Compatible Vehicles:** Ford, Chevrolet, Nissan, BMW, Volkswagen, Hyundai, Kia, Audi, Mercedes-Benz, Rivian, Porsche, Toyota, Honda, Jeep, GMC, and others that use the J1772 standard.
- **Tesla Vehicles:** A separate J1772 to Tesla adapter is required for charging Tesla vehicles (not included).

Supports All J1772 EVs

Tesla owners need additional J1772 to Tesla adapter



Lock Clasp



BMW
5 Series 530e,X5 xDrive40e i3s



Mitsubishi
OutlanderPHEV



Audi
e-tron e-tron Sportback Q5 PHEV



Ford
C-Max Energi, Fusion Energi, Mustang Mach-E, Focus electric



Toyota
Prius Prime,RAV4 Prime, Mira



Nissan
LEAF,LEAF S,LEAF S PLUS



Chevrolet
Bolt EV, EUV Volt



Volkswagen
ID.4,e-Golf



Hyundai
Ioniq Electric Kona Electric, Ioniq 5



Honda
Clarity Electric Clarity PHEV



Kia
Niro EV, Soul EV, EV 6



Other

Image: The J1772 charging connector with a lock clasp, surrounded by logos of various electric vehicle brands (BMW, Mitsubishi, Audi, Ford, Toyota, Nissan, Chevrolet, Volkswagen, Hyundai, Honda, Kia) indicating compatibility.

8. MAINTENANCE

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

- **Cleaning:** Wipe the control box and cables with a soft, dry cloth. Do not use abrasive cleaners or solvents. Ensure the J1772 connector is free of dust and debris.
- **Storage:** When not in use, store the charger in the provided carry bag in a dry, cool place. Avoid coiling the cable too tightly.
- **Environmental Conditions:** The charger is designed to withstand various conditions (IP65 waterproof, dustproof, -22°F to +113°F operating temperature). However, prolonged exposure to extreme conditions should be avoided when possible.
- **Inspection:** Regularly inspect the cable, plugs, and J1772 connector for any signs of damage, wear, or corrosion. Do not use if any damage is observed.



Image: A composite image demonstrating the BETUMODA EV charger's resistance to various environmental conditions, including dust, water (IP65 waterproof), and extreme temperatures (-22°F to +113°F).

9. TROUBLESHOOTING

If you encounter issues with your BETUMODA EV Charger, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Charger not starting / No power to display	Loose power connection, power outage, faulty outlet.	Check if the plug is fully inserted into the outlet. Verify the outlet has power. Try a different outlet if available.

Problem	Possible Cause	Solution
Charging not initiating after connecting to vehicle	J1772 connector not fully inserted, vehicle not ready to charge, delayed start timer active, internal fault.	Ensure the J1772 connector is securely latched. Check your vehicle's charging settings. Verify if a delayed start timer is set on the charger. If the display shows an error like "PERM-FAULT Device Relay Fault", disconnect and reconnect the charger. If the issue persists, contact customer support.
Slow charging speed	Low current setting, Level 1 charging (110V/120V), vehicle limitations.	Adjust the current setting to a higher amperage (e.g., 16A) if your power source and vehicle support it. Use a 220V/240V NEMA 6-20 outlet for faster Level 2 charging.
Display shows error message	Internal fault, power supply issue, vehicle communication error.	Note the exact error message. Disconnect the charger from both the vehicle and the power source, wait a few minutes, then reconnect. If the error persists, consult the user manual for specific error codes or contact customer support.

10. SPECIFICATIONS

Feature	Detail
Model	24FT-16A EV CHARGER
Input Voltage	110V/120V (Level 1) or 220V/240V (Level 2)
Adjustable Current	8A, 10A, 13A, 16A
Max Charging Rate (Level 2, 16A 240V)	3.84 kW/h (approx. 15.36 MPH)
Max Charging Rate (Level 1, 16A 120V)	1.92 kW/h (approx. 7.04 MPH)
Cable Length	24 feet
Plugs	NEMA 6-20 (main), NEMA 5-15 (adapter)
Charging Connector	SAE J1772
Display	2.8-inch Touch LED
Safety Certifications	CE, FCC
Waterproof Rating	IP65
Product Dimensions	15.55 x 13 x 5.9 inches
Item Weight	7.78 pounds

11. WARRANTY AND CUSTOMER SUPPORT

BETUMODA products are manufactured to high-quality standards and are backed by a limited warranty. For specific warranty details, please refer to the warranty card included with your product or contact BETUMODA customer support.

If you have any questions, require technical assistance, or need to report an issue, please contact our customer support team through the retailer's platform or the official BETUMODA website.

© 2025 BETUMODA. All rights reserved.

ASK A QUESTION ABOUT THIS MANUAL

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

Open the live page

<https://manuals.plus/asin/B0F1G7FQ12>

More documents and user manuals: <https://manuals.plus/>