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bokman BKL24025

Bokman Portable Level 2 EV Charger User Manual

Model: BKL24025

1. INTRODUCTION

This user manual provides essential information for the safe and efficient operation of your Bokman Portable Level 2 EV Charger. This device is designed to provide convenient and flexible charging solutions for electric vehicles compatible with the SAE-J1772 standard. Please read this manual thoroughly before using the charger to ensure proper setup, operation, and maintenance.

2. PRODUCT OVERVIEW

The Bokman Portable Level 2 EV Charger offers adjustable current settings and a 25-foot charging cable, making it suitable for various home charging environments. It supports both Level 1 (120V) and Level 2 (240V) charging through included adapters.

2.1 Package Contents

Upon unpacking, please verify that all items listed below are present and in good condition:

- 1x Control Box
- 1x Charger Holder
- 1x EV Charger (with 25ft cable)
- 1x Box Holder
- 1x Storage Bag
- 1x NEMA 5-15 Adapter
- 1x User Manual
- 1x Double Sided Microfiber Towel

Anti-Accidental Touch

Buttons will be disabled when connected to the car



Figure 2.1: Included components of the Bokman Portable EV Charger package.

3. SETUP

Before initial use, ensure the charging environment is safe and the electrical outlets meet the required specifications.

3.1 Choosing a Charging Level (Level 1 vs. Level 2)

The charger supports two charging levels based on the power outlet used:

- **Level 2 Charging:** Use the NEMA 14-50 plug with a 240V outlet for faster charging.
- **Level 1 Charging:** Use the included NEMA 5-15 adapter with a standard 120V household outlet for slower charging.

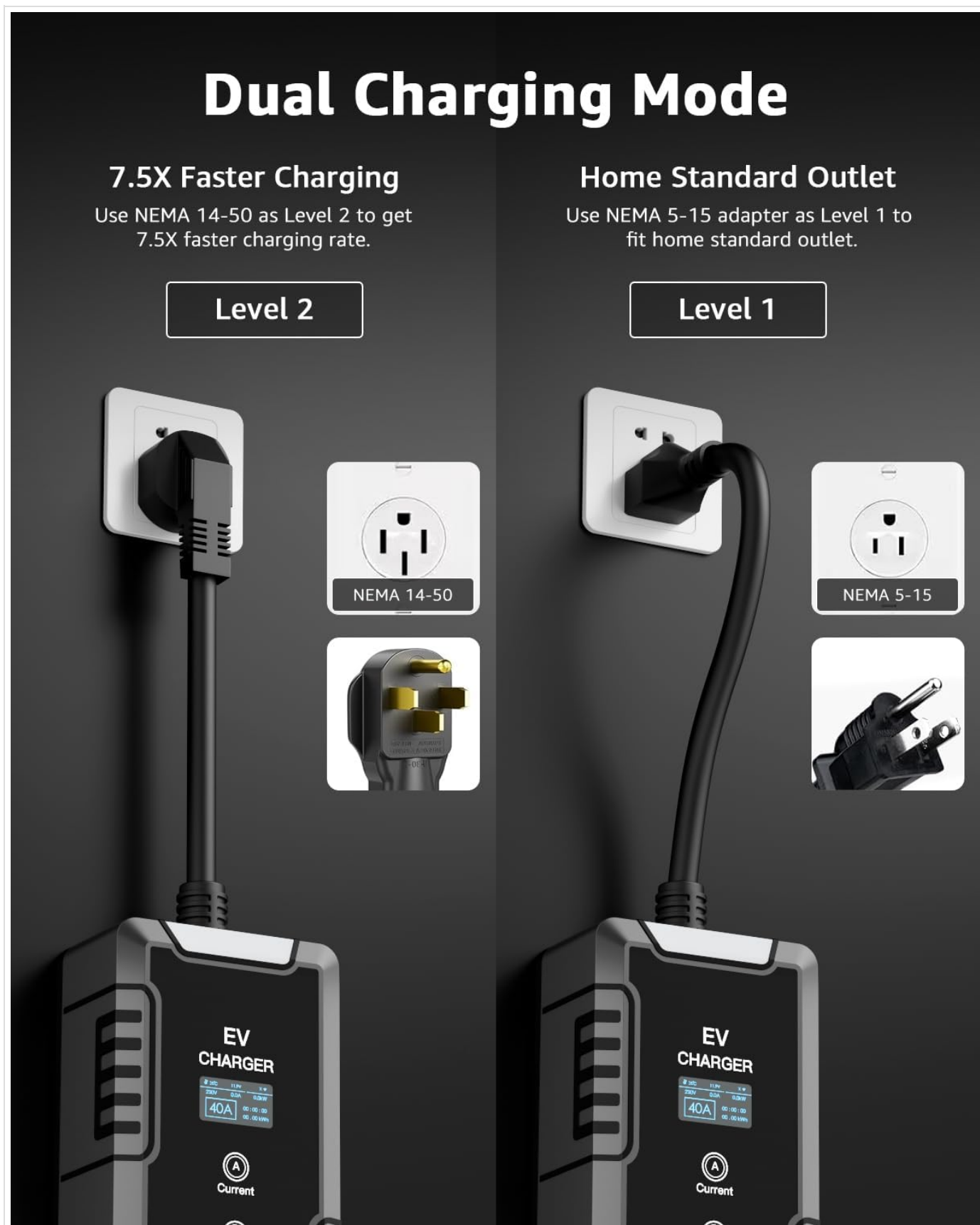


Figure 3.1: Dual Charging Mode options for the EV Charger.

3.2 Installation Steps

1. **Mounting the Charger:** If desired, use the provided charger holder and box holder to mount the control box and charging connector securely to a wall. Ensure the mounting location is dry, well-ventilated, and away from direct sunlight or heat

sources.

2. **Connect to Power Outlet:** Insert the appropriate NEMA plug (14-50 or 5-15 with adapter) into the corresponding electrical outlet.
3. **Select Charging Current (Before Connecting to Car):** Before plugging into your vehicle, you can adjust the charging current. Press the "Current" button on the control box to cycle through available amperage settings (6A to 40A). This allows you to match the charger's output to your electrical circuit's capacity.
4. **Connect to Electric Vehicle:** Insert the SAE-J1772 charging connector into your electric vehicle's charging port.



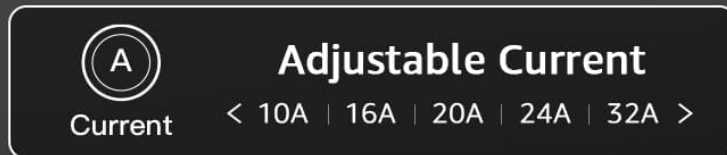
Figure 3.2: Basic steps for connecting the EV charger.

4. OPERATING INSTRUCTIONS

The Bokman EV Charger features an intuitive control box with an LCD display and physical buttons for easy operation.

4.1 Control Box Functions

Control Box Introduction



To prevent the charger from being accidentally triggered after the user leaves, the buttons cannot be adjusted when the charger is connected to the car.

Figure 4.1: Overview of the Control Box and its features.

- **LCD Display:** Shows real-time charging status, including temperature, voltage, current, power, and total energy charged.
- **Current Button (A):** Press to adjust the charging current. Available settings range from 6A to 40A. *Note: Current can only be adjusted when the charger is NOT connected to the vehicle.*
- **Delay Button (Clock Icon):** Press to set a delay for the charging start time, allowing for reservation charging during off-peak hours (1H to 12H).
- **LED Indicator:**

- Solid Blue: Charging Completed
- Flashing Blue: Charging in Progress
- Solid Green: Power On
- Flashing Green: Schedule Mode (Delayed Charging)

4.2 Smart Charging Schedules

Utilize the delay charging function to optimize charging costs by scheduling charging sessions during off-peak electricity hours. Press the 'Delay' button to set the desired delay time before charging begins.

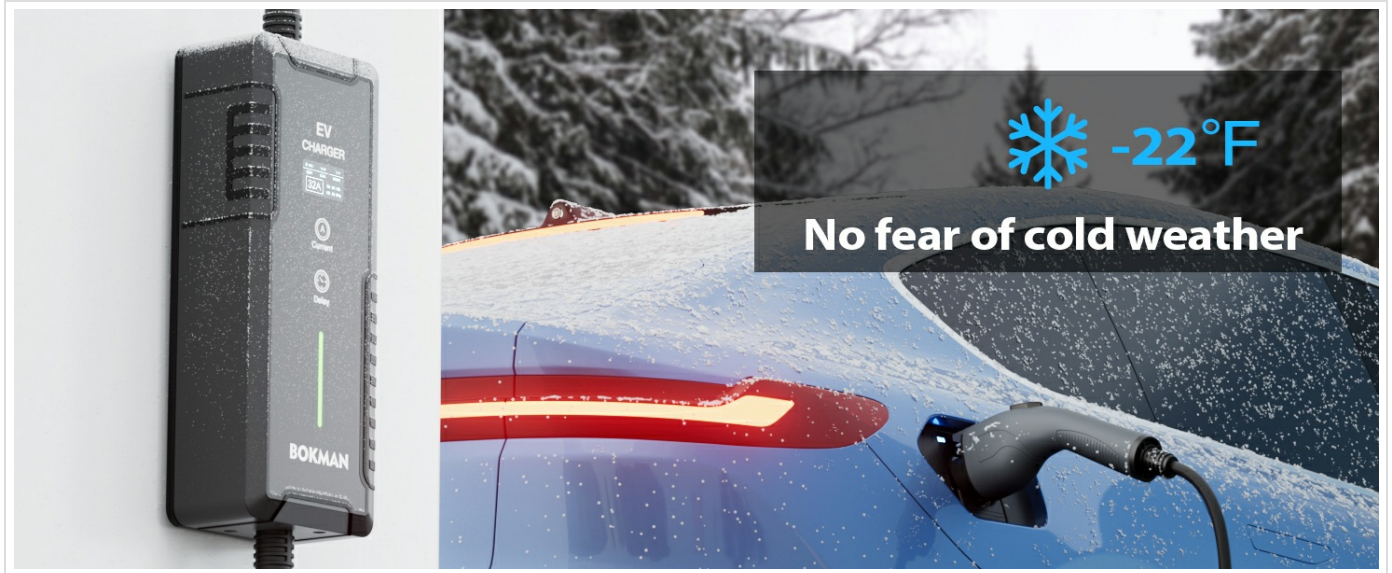


Figure 4.2: Example of using delay function for smart charging.

4.3 Safety Features

The charger is equipped with multiple protection functions to ensure a safe charging experience:

- Leakage Protection
- Overcharge Protection
- Under Voltage Protection
- Overcurrent Protection
- Over-temperature Protection
- Short Circuit Protection

For safety, the control box buttons are disabled once the charger is connected to the vehicle to prevent accidental changes during charging.

Faster Charging

1-Hour Charging for a 36-Mile* Journey

7.5X
Faster

Bokman 9.6kW EV Charger

1 Hour **36 Mile**

Other EV Chargers

1 Hour **4.8 Mile**



*Data calculated based on using a Chevrolet Bolt EUV with a 65 kWh battery and an estimated daily travel distance of around 40 miles.

Figure 4.3: Anti-Accidental Touch feature.

5. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your EV charger. The Bokman charger is built with durable materials designed to withstand various environmental conditions.

5.1 General Care

- Keep the charger and cables clean. Use the provided microfiber towel for cleaning.
- Avoid exposing the control box to direct impact or excessive force.
- Ensure the charging cable is not kinked or twisted during storage or use.
- Store the charger in its storage bag when not in use, especially during travel.

5.2 Environmental Resistance

The charger is designed for robust performance in various conditions:

- **Waterproof Ability (IP65):** The charger is rated IP65, providing protection against dust and low-pressure water jets. This allows for safe outdoor use in most weather conditions.



Figure 5.1: IP65 Waterproof Rating.

- **Temperature Resistance:** The charger is built to operate reliably in a wide range of temperatures, from as low as -22°F (-30°C) to as high as 130°F (55°C).



Figure 5.2: Performance in cold weather.

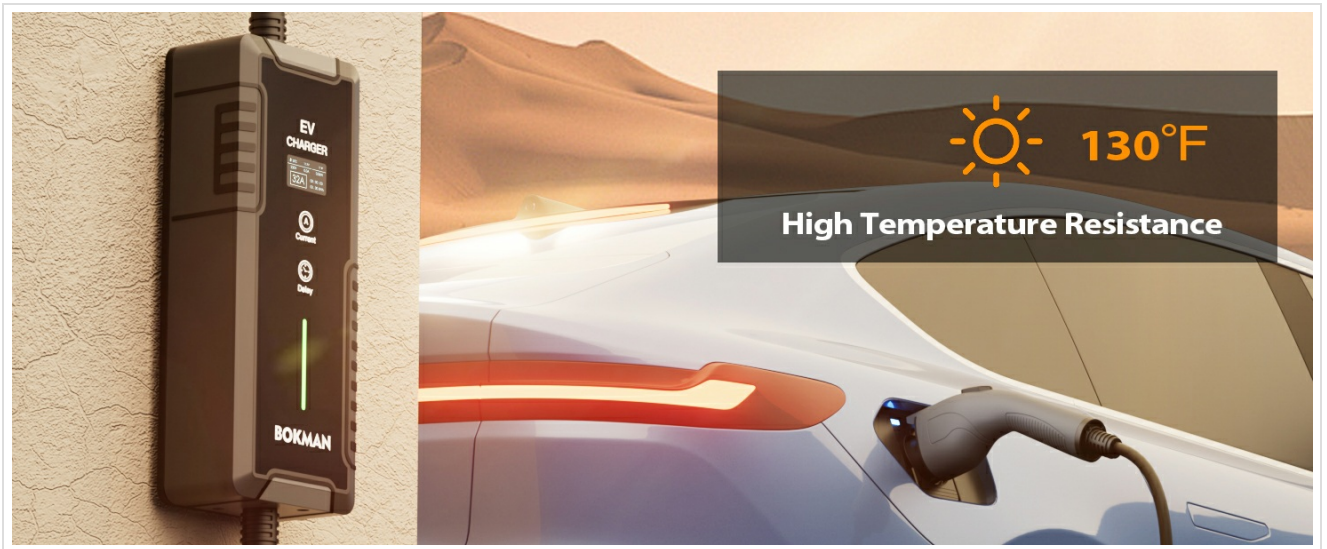


Figure 5.3: Performance in high temperatures.

- **Sturdy Material:** The charger's construction is designed to withstand significant pressure, capable of enduring a car crushing at a weight of 2.5 tons.

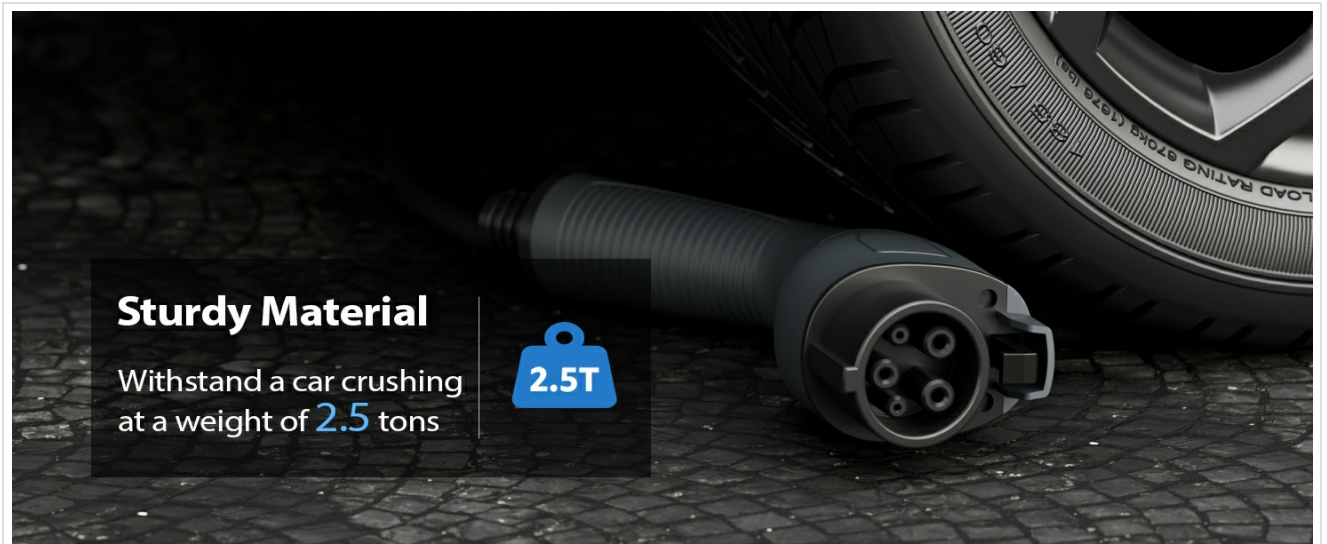


Figure 5.4: Durability against physical stress.

- **Durable Outer Cover:** The charging cable features a robust outer cover that prevents damage when dragged on rough surfaces.



Figure 5.5: Cable durability on rough terrain.

6. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Charger not powering on.	No power from outlet; loose connection.	Ensure the power plug is fully inserted into the wall outlet. Check the circuit breaker for the outlet.
Charging does not start when connected to EV.	Vehicle not ready to charge; charger not fully connected to EV; current setting too low.	Ensure your EV is ready to accept a charge. Verify the SAE-J1772 connector is fully seated in the vehicle's port. Check the current setting on the control box (adjust before connecting to car).
Cannot change current setting.	Charger is connected to the vehicle.	Disconnect the charger from the vehicle first. Then, use the "Current" button to adjust the amperage. Reconnect to the vehicle to begin charging with the new setting.
Cannot stop charging from control box.	Buttons are disabled when connected to the vehicle.	To stop charging, first press and hold the "A" button on the control box for several seconds until a prompt appears (if available), then confirm. Alternatively, unplug the charger from the vehicle, or use your vehicle's internal controls to stop charging.
LED indicator shows an error.	Internal fault; protection activated (e.g., over-temperature, over-voltage).	Unplug the charger from both the wall and the vehicle. Wait a few minutes, then reconnect. If the error persists, contact customer support.

7. SPECIFICATIONS

Key technical specifications for the Bokman Portable Level 2 EV Charger:

Feature	Detail
Brand	bokman
Model Number	BKL24025
Input Voltage	240 Volts (Level 2), 120 Volts (Level 1 with adapter)
Output Voltage	240 Volts
Current Rating	40 Amps (Adjustable)
Cable Length	25 feet
Connector Type	SAE-J1772
Plug Type	NEMA 14-50 (with NEMA 5-15 adapter)
Item Weight	13.79 pounds
Package Dimensions	14.53 x 13.27 x 5.67 inches
Waterproof Rating	IP65

Feature	Detail
Operating Temperature	-22°F to 130°F (-30°C to 55°C)

8. WARRANTY INFORMATION

Specific warranty details for the Bokman Portable Level 2 EV Charger are not provided in the product information. Please refer to the warranty card included with your product or contact Bokman customer support for detailed warranty terms and conditions.

9. CUSTOMER SUPPORT

For technical assistance, product inquiries, or warranty claims, please contact Bokman customer support through the following channels:

- **Manufacturer Website:** Visit the official Bokman website for support resources and contact information.
- **Amazon Store:** You can also reach out through the Bokman store on Amazon: [Visit the Bokman Store](#)
- **Email/Phone:** Refer to the contact details provided in the product packaging or on the official website.