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› bokman Portable Level 2 EV Charger (240V, 16A) User Manual

bokman BKL21625

bokman Portable Level 2 EV Charger User Manual

Model: BKL21625

1. INTRODUCTION

This manual provides essential instructions for the safe and efficient operation of your bokman Portable Level 2 EV Charger. Please read this manual thoroughly before using the product and retain it for future reference. This charger is designed to provide a convenient and flexible charging solution for your electric vehicle, offering both Level 1 (120V) and Level 2 (240V) charging capabilities.

2. PACKAGE CONTENTS

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

- bokman Portable EV Charger Unit (Control Box with 25ft Cable and J1772 Connector)
- NEMA 6-20 Plug (integrated)
- NEMA 5-15 Adapter
- Wall Box Holder
- Charger Holder
- Storage Bag
- User Manual (this document)
- Double Sided Microfiber Towel

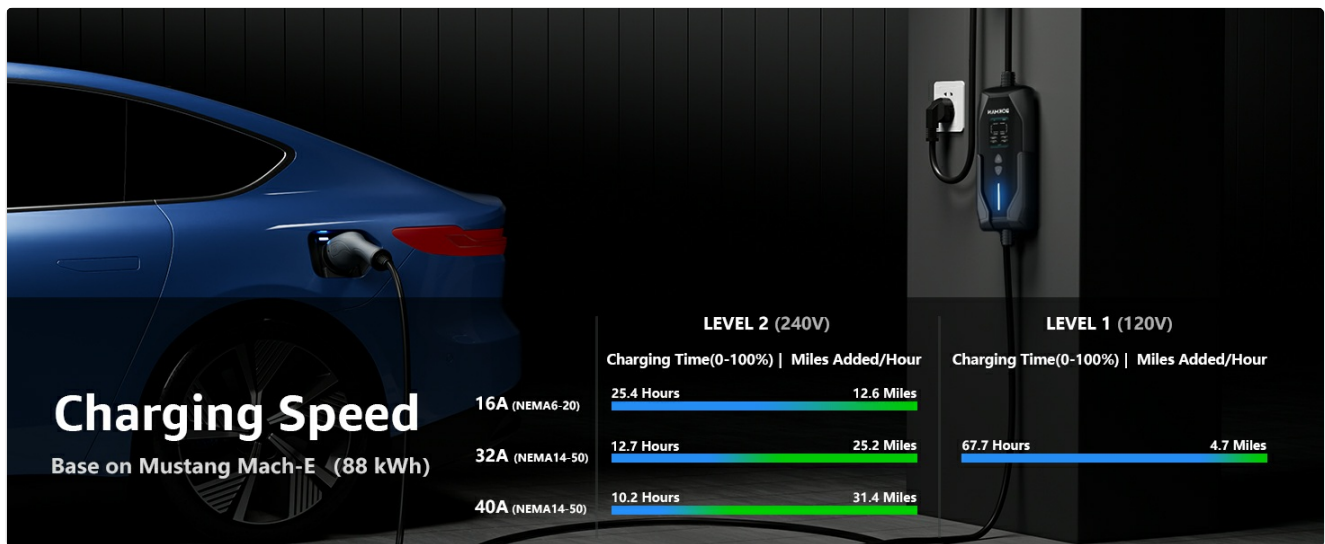


Figure 2.1: Included Package Contents

3. SAFETY INSTRUCTIONS

Please observe the following safety precautions to prevent injury or damage to the product:

- **Electrical Safety:** Always ensure the power outlet is properly grounded and rated for the charger's voltage and amperage. Do not use damaged cables or adapters.
- **Environmental Conditions:** The charger is IP65-rated for water and dust resistance, suitable for outdoor use. However, avoid submerging the unit in water. Operate within specified temperature ranges.
- **Protection Systems:** The charger includes built-in protections against over-current, over-voltage, over-temperature, and ground faults. If a fault occurs, the charger will stop operation.
- **Ventilation:** Ensure adequate ventilation around the charger during operation to prevent overheating.
- **Children and Pets:** Keep the charger and cables out of reach of children and pets.
- **Emergency Disconnect:** In case of an emergency, immediately disconnect the charger from the power source and the vehicle.

4. SETUP AND INSTALLATION

Follow these steps to set up your bokman EV charger:

1. **Choose a Location:** Select a dry, well-ventilated area near your vehicle's parking spot and a suitable power outlet. The charger is IP65 rated for outdoor use.
2. **Mounting (Optional):** Use the provided wall box holder and charger holder to securely mount the control box and store the J1772 connector when not in use.
3. **Connect to Power Source:**
 - **For Level 2 Charging (240V, 16A):** Plug the integrated NEMA 6-20 plug directly into a compatible 240V NEMA 6-20 outlet.
 - **For Level 1 Charging (120V):** Attach the NEMA 5-15 adapter to the NEMA 6-20 plug, then plug it into a standard 120V NEMA 5-15 household outlet. Note that charging speed will be significantly slower in Level 1 mode.

4. **Initial Check:** Once connected to power, the charger's LCD screen will illuminate, and the LED indicator will show a solid green light, indicating it is powered on and ready.



Figure 4.1: Basic Connection Steps

Dual Charging Mode

2X Faster Charging

Use NEMA 6-20 as Level 2 to get 2X faster charging rate (3.8KW)

Level 2



Home Standard Outlet

Use NEMA 5-15 adapter as Level 1 to fit home standard outlet.

Level 1



Figure 4.2: Dual Charging Mode Options

5. OPERATING INSTRUCTIONS

5.1. Understanding the Control Box and Display

The control box features an LCD display and control buttons for managing charging parameters.

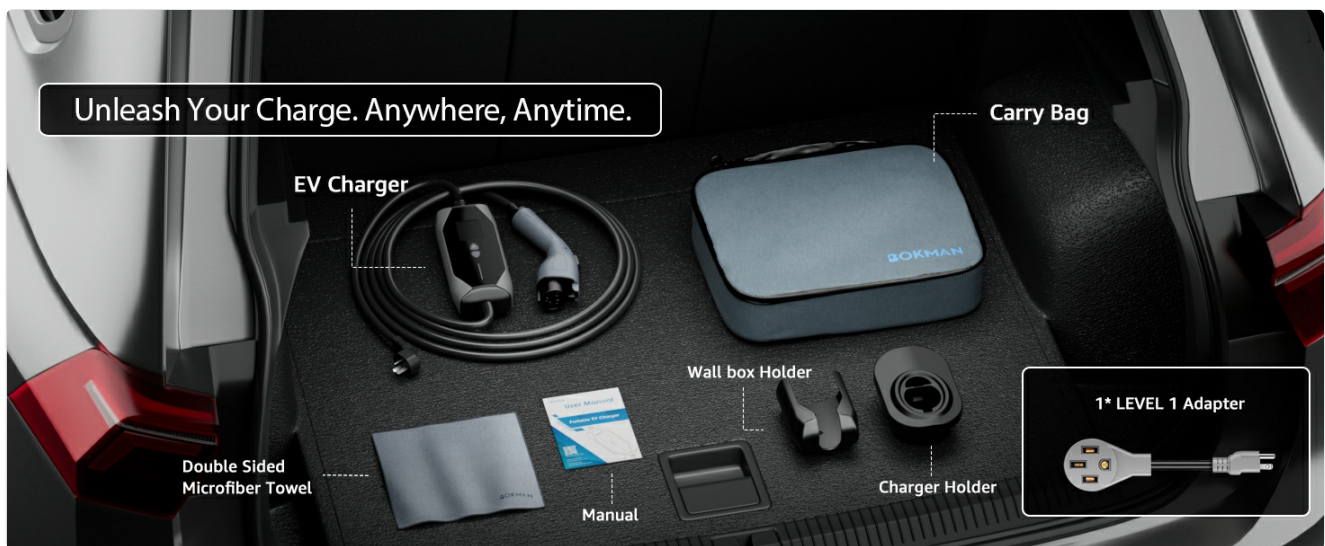


Figure 5.1: Control Box Display and Button Functions

- **LCD Display:** Shows real-time charging information including selected current, charged capacity (kWh), temperature, charging voltage, charging timer, charging power (kW), and charging current (A).
- **'A' Button (Adjustable Current):** Press to cycle through available current settings (e.g., 6A, 8A, 10A, 12A, 16A). Select the appropriate amperage based on your vehicle's requirements and circuit capacity.
- **'L' Button (Time Schedule):** Press to set a delayed charging start time, typically from 1 to 12 hours. This allows you to charge during off-peak electricity hours.

5.2. LED Indicator Meanings

- **Solid Green:** Power On / Ready to charge.
- **Solid Blue:** Charging Completed.
- **Flashing Blue:** Charging in progress.
- **Flashing Green:** Schedule Mode (waiting to start charging).
- **Red Light:** Error or Fault. Refer to the Troubleshooting section.



Figure 5.2: LED Indicator Status

5.3. Charging Procedure

1. **Connect to Power:** Ensure the charger is properly plugged into a suitable NEMA 6-20 (or NEMA 5-15 with adapter) outlet. The control box will power on.
2. **Adjust Current (Optional):** If desired, press the 'A' button to select your preferred charging amperage. The default setting is typically the maximum supported by the charger (16A for this model).
3. **Set Schedule (Optional):** If you wish to delay charging, press the 'L' button to set the desired delay time. The charger will wait for the set duration before starting to charge.

4. **Connect to Vehicle:** Insert the J1772 connector firmly into your electric vehicle's charging port. A click indicates a secure connection.
5. **Charging Begins:** The charger will initiate charging. The LED indicator will flash blue, and the LCD display will show active charging data.
6. **Charging Completion:** Once your vehicle is fully charged, the charger will automatically stop, and the LED indicator will turn solid blue.
7. **Disconnect:** Disconnect the J1772 connector from your vehicle, then unplug the charger from the wall outlet.



Figure 5.3: Scheduling Charging for Off-Peak Hours

6. MAINTENANCE

Proper maintenance ensures the longevity and safe operation of your charger:

- **Cleaning:** Regularly wipe the control box and cables with a soft, dry cloth. For stubborn dirt, use a slightly damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Cable Inspection:** Periodically inspect the charging cable, plugs, and connector for any signs of wear, cuts, fraying, or damage. Do not use if any damage is observed.
- **Storage:** When not in use, store the charger in the provided storage bag in a cool, dry place, away from direct sunlight and extreme temperatures. Use the charger holder to keep the J1772 connector clean and protected.
- **Environmental Resilience:** The charger is designed to perform reliably in various weather conditions (IP65 waterproof, freeze-resistant, heat-resistant).



Figure 6.1: All-Weather Charging Capabilities

7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Charger not powering on	No power from outlet, loose connection, internal fault.	Check the wall outlet with another device. Ensure the plug is fully inserted. Try a different outlet. If problem persists, contact support.
Vehicle not charging	J1772 connector not fully inserted, vehicle charging port issue, scheduled charging active, charger fault.	Ensure the J1772 connector is securely latched. Check your vehicle's charging status. Verify no charging schedule is active on the charger. Disconnect and reconnect.

Problem	Possible Cause	Solution
Red LED indicator / Error message on LCD	Over-current, over-voltage, over-temperature, ground fault, or other internal error.	Disconnect the charger from both the wall and the vehicle. Wait a few minutes, then reconnect. If the error persists, note any error codes on the display and contact customer support.
Slow charging speed	Using NEMA 5-15 adapter (Level 1), low amperage setting, vehicle limitation.	Ensure you are using a 240V NEMA 6-20 outlet for Level 2 charging. Check the amperage setting on the charger and adjust to a higher value if your circuit supports it. Consult your vehicle's manual for charging specifications.

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

8. SPECIFICATIONS

Feature	Detail
Model Number	BKL21625
Charging Level	Level 2 (240V) / Level 1 (120V with adapter)
Input Voltage	240V AC (NEMA 6-20) / 120V AC (NEMA 5-15 adapter)
Adjustable Current	6A, 8A, 10A, 12A, 16A
Connector Type	J1772 (Type 1)
Cable Length	25 feet (7.5 meters)
Ingress Protection (IP) Rating	IP65 (Waterproof and Dustproof)
Operating Temperature	Designed for reliable performance in extreme temperatures
Safety Features	Over-current, Over-voltage, Over-temperature, Ground Fault Protection
Item Weight	10.21 pounds
Package Dimensions	14.41 x 13.23 x 5.59 inches

Package List



Figure 8.1: Charging Speed Comparison (Example)

9. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the documentation provided with your purchase or contact bokman directly through their official website or the retailer where the product was purchased. Keep your purchase receipt as proof of purchase for warranty claims.

Manufacturer: HONGKONG HAN HANG TRADING LIMITED

