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Morec BS-PCD018

Morec Level 1 EV Charger User Manual

Model: BS-PCD018

1. Introduction

This manual provides essential information for the safe and efficient operation of your Morec Level 1 Portable EV Charger, Model BS-PCD018. Please read this manual thoroughly before using the product and retain it for future reference. This charger is designed to provide convenient Level 1 charging for electric vehicles compatible with the SAE J1772 standard, utilizing a standard 110V 15A NEMA 5-15P household outlet.



Image 1.1: Morec Level 1 EV Charger components including the control box, NEMA 5-15P plug, and J1772 connector.

2. Safety Information

Adherence to safety guidelines is crucial for preventing injury and damage. This charger is FCC and CE certified and incorporates multiple protection mechanisms. Always follow these instructions:

- **Electrical Safety:** Ensure the NEMA 5-15P outlet used is properly grounded and in good condition. Do not use damaged outlets or extension cords.
- **Environmental Conditions:** The charger is designed for outdoor use with IP65 waterproof and dustproof rating, suitable for temperatures from -25°C to +55°C. Avoid submerging the unit in water.
- **Protection Features:** The charger includes built-in over-voltage, over-current, overheating, and short-circuit protection. If a fault occurs, the charger will cease operation.
- **Cable Handling:** Do not drive over the charging cable. Avoid sharp bends or kinks in the cable. Always grasp the plug firmly when connecting or disconnecting.

- **Children and Pets:** Keep the charger and cable out of reach of children and pets during operation.



Image 2.1: The charger's control box is designed with IP65 protection, making it suitable for use in various weather conditions, including rain.



Image 2.2: The charger is rated for safe operation in extreme weather, including temperatures as low as -25°C.

3. Product Overview

The Morec Level 1 EV Charger is a portable charging solution for electric vehicles. It features a lightweight design, a durable TPU cable, and a smart LCD display for monitoring charging status.

Key Features:

- **Portable Design:** Weighing approximately 5.5 pounds, it is easy to transport and store.
- **Durable Cable:** The 20-foot TPU cable is wear-resistant, aging-resistant, and provides excellent heat and cold resistance.
- **Smart LCD Display:** Shows charging mode, voltage, current, and temperature.
- **Integrated Hook Groove:** Allows for convenient wall mounting of the control box.



Image 3.1: The control box features a hook groove for easy wall mounting, providing a secure and organized charging setup.



Image 3.2: The LCD display provides clear LED indicators for various charging states, including Initial Mode, Connected Mode, Charging Mode, and Fault Mode.

4. Setup

Setting up your Morec Level 1 EV Charger is a straightforward process:

1. **Unpack the Charger:** Carefully remove all components from the packaging. Inspect the charger, cable, and plugs for any signs of damage. Do not use if damaged.
2. **Choose a Location:** Select a dry, well-ventilated area near your vehicle and a standard 110V 15A NEMA 5-15P household outlet. Ensure the 20-foot cable can reach your vehicle's charging port without tension or obstruction.
3. **Mount the Control Box (Optional):** If desired, use the integrated hook groove on the back of the control box to mount it securely to a wall. This helps keep the unit off the ground and organized.
4. **Connect to Power:** Plug the NEMA 5-15P plug into a dedicated 110V 15A household outlet. The charger's LCD display should illuminate, indicating it is powered on and in 'Initial Mode'.

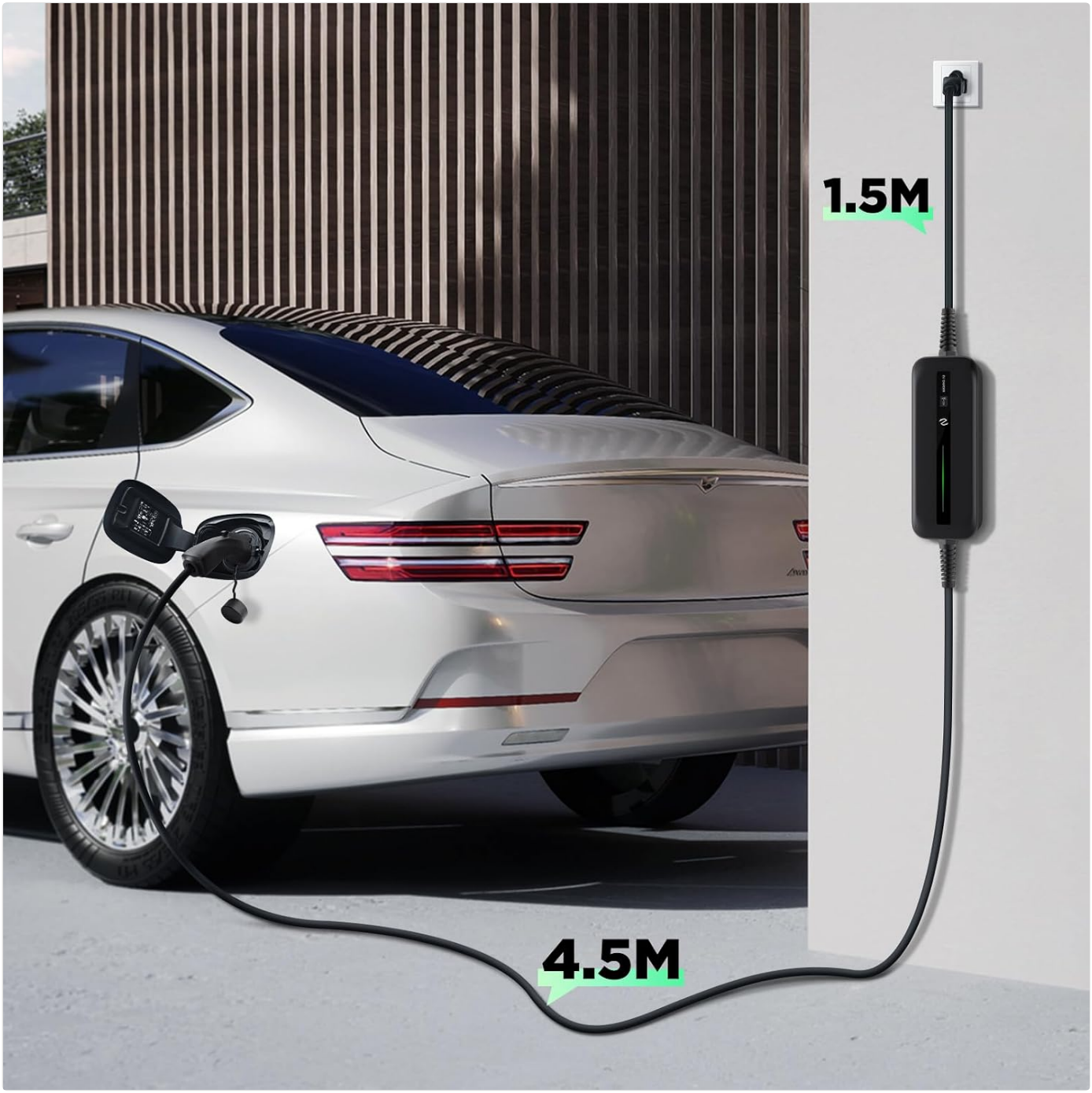


Image 4.1: Illustration of the 20-foot cable length, demonstrating reach from a wall outlet to an electric vehicle.

5. Operating Instructions

Follow these steps to charge your electric vehicle:

1. **Prepare Your Vehicle:** Ensure your electric vehicle is turned off and the charging port is accessible.
2. **Connect to Vehicle:** Open the charging port cover on your vehicle. Grasp the J1772 connector firmly and insert it into your vehicle's charging port until it clicks into place.
3. **Verify Connection:** The charger's LCD display will transition from 'Initial Mode' to 'Connected Mode', then to 'Charging Mode'. Your vehicle's dashboard or charging indicator should also confirm that charging has begun. The display will show real-time charging data.
4. **Monitor Charging:** The charger will automatically manage the charging process. You can monitor the progress via the LCD display.
5. **Disconnect After Charging:** Once your vehicle is fully charged or you wish to stop charging, press the release

button on the J1772 connector handle. Carefully pull the connector out of your vehicle's charging port.

6. **Store the Charger:** Disconnect the NEMA 5-15P plug from the wall outlet. Coil the cable neatly and store the charger in a dry, safe place.



Image 5.1: Detailed view of the J1772 connector, the durable TPU cable, and the NEMA 5-15P plug.

6. Maintenance

Proper maintenance ensures the longevity and safe operation of your Morec EV Charger:

- **Regular Cleaning:** Wipe the control box and cable with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.
- **Inspect for Damage:** Periodically check the cable, plugs, and control box for any cuts, cracks, fraying, or discoloration. If any damage is found, discontinue use immediately and contact customer support.
- **Proper Storage:** When not in use, store the charger in a clean, dry environment, away from direct sunlight and extreme temperatures. Avoid coiling the cable too tightly.

- **Connector Care:** Keep the J1772 connector clean and free of debris. Use the protective cap when the charger is not in use.

7. Troubleshooting

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

Problem	Possible Cause	Solution
Charger not powering on / LCD display off	No power from outlet; damaged plug/cable	Check the wall outlet with another device. Ensure the NEMA 5-15P plug is fully inserted. Inspect cable for damage.
Charging does not start after connecting to vehicle	J1772 connector not fully inserted; vehicle not ready to charge; fault detected	Ensure the J1772 connector is securely latched. Check vehicle's charging settings. Refer to the LCD display for fault codes (if any). Disconnect and reconnect.
Charging stops unexpectedly	Power interruption; internal fault (over-current, over-voltage, overheating)	Check the power supply. If a fault is indicated on the LCD, disconnect the charger, allow it to cool if overheating, and then attempt to restart. If the problem persists, contact support.
Slow charging rate	Normal Level 1 operation; vehicle settings	Level 1 charging is inherently slower (approx. 1.65 KW). This is normal. Ensure no other high-power appliances are on the same circuit.

If troubleshooting steps do not resolve the issue, please contact Morec customer support for assistance.

8. Specifications

Brand	Morec
Model Number	BS-PCD018
Input Voltage	110 Volts (AC)
Amperage	15 Amps
Wattage	1.65 KW
Cable Length	20 feet
Connector Type	NEMA 5-15P (Input), SAE J1772 (Output)
Protection Rating	IP65 (Waterproof and Dustproof)
Operating Temperature	-25°C to +55°C

Item Weight	Approximately 5.04 pounds
Certifications	FCC, CE

9. Warranty and Support

Morec products are designed for reliability and performance. For warranty information, product support, or technical assistance, please refer to the contact information provided with your purchase or visit the official Morec website. Please have your model number (BS-PCD018) and purchase date available when contacting support.

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