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› Wattsaving Level 2 EV Charger User Manual

Wattsaving US10-NEMA14-Black

Wattsaving Level 2 EV Charger User Manual

Model: US10-NEMA14-Black

1. INTRODUCTION

Thank you for choosing the Wattsaving Level 2 EV Charger. This manual provides essential information for the safe and efficient installation, operation, and maintenance of your electric vehicle charging station. Please read this manual thoroughly before using the product and retain it for future reference.

2. SAFETY INFORMATION

Your safety and the safety of others are paramount. This charger is designed with multiple safety features and is J1772-compliant, built to meet North American safety standards. Always adhere to the following safety guidelines:

- **Professional Installation:** Installation of the NEMA 14-50 outlet should be performed by a qualified electrician in accordance with all local and national electrical codes.
- **Outdoor Use:** The charger features an IP65-rated enclosure, making it durable and resistant to water and dust. However, for optimal longevity, consider installing it under a protective cover or in a sheltered location if exposed to extreme weather.
- **Cable Handling:** Always handle the charging cable and connector with care. Do not use if the cable or connector is damaged. Avoid kinking, crushing, or stretching the cable.
- **Emergency Stop:** Familiarize yourself with the emergency stop button on the unit.
- **RFID Security:** Utilize the RFID tags for secure and authorized charging sessions.
- **Children and Pets:** Keep children and pets away from the charging area during operation.

Safety Features



FC FCC Certified



CCID 20



Emergency
Stop Button



Lightning
Protection



Overvoltage
Protection



Overcurrent
Protection



Overtemperature
Protection



Leakage
Current Protection

Image Description: This image highlights the comprehensive safety features of the Wattsaving EV Charger, including FCC certification, CCID 20, emergency stop button, lightning protection, overvoltage protection, overcurrent protection, overtemperature protection, and leakage current protection.

3. PACKAGE CONTENTS

Upon unpacking, please verify that all the following items are included:

- Wattsaving Level 2 EV Charger Unit with integrated 24.6 Ft Cable and J1772 Connector
- NEMA 14-50 Plug (pre-attached)

- Wall Mounting Bracket and Hardware
- RFID Cards (for secure charging activation)
- User Manual (this document)

4. PRODUCT OVERVIEW

The Wattsaving Level 2 EV Charger is designed for efficient and reliable electric vehicle charging at home. It offers fast charging capabilities and robust safety features.

Key Features:

- **Fast Charging:** Delivers up to 9.6 kW, adding approximately 30-37 miles of range per hour.
- **Universal Compatibility:** Equipped with a J1772 connector, compatible with most electric vehicles in North America.
- **Easy Installation:** Features a NEMA 14-50 plug for straightforward setup with an existing or newly installed 240V outlet.
- **Secure Charging:** RFID card enabled for controlled access and secure charging sessions.
- **Durable Design:** IP65-rated enclosure provides protection against water and dust, suitable for various environmental conditions.
- **Extended Reach:** Comes with a 24.6-foot cable for flexible parking and charging options.



Image Description: The Wattsaving Level 2 EV Charger, featuring a sleek black design, is shown mounted on a wall with its charging cable neatly coiled on an accompanying cable management hook.



NEMA 14-50 Plug
40Amp 240V



J1772 Connector



RFID Card Enabled



Fast Charging up to
37 Miles per Hour



Image Description: The Wattsaving EV Charger is depicted alongside its key specifications: a NEMA 14-50 plug for 40 Amp 240 Volt input, a J1772 connector for universal EV compatibility, RFID card enablement for secure access, and fast charging capabilities adding up to 37 miles of range per hour.



IP65-Rated Enclosure

Durable, water and dust tight enclosure for all weather condition

Image Description: The Wattsaving EV Charger is shown outdoors in rainy conditions, emphasizing its IP65-rated enclosure which ensures durability and protection against water and dust for all weather conditions.

Thick, Long and Flexible Cable

0.82 Inch Thick

1.47x thicker than Tesla's

24.6 Feet Long

Flexible for hard-to-reach locations



Image Description: The Wattsaving EV Charger is shown with its 24.6-foot long, 0.82-inch thick cable, designed to be flexible and reach hard-to-access charging ports.

5. SETUP AND INSTALLATION

The Wattsaving Level 2 EV Charger is designed for straightforward installation. It requires a dedicated 240V NEMA 14-50 outlet.

Installation Steps:

1. **Prepare the Location:** Choose a suitable location near your parking area with access to a 240V NEMA 14-50 outlet. Ensure the surface is sturdy enough to support the charger's weight. If a NEMA 14-50 outlet is not present, consult a qualified electrician for proper installation.
2. **Mount the Charger:** Use the provided mounting bracket and hardware to securely attach the charger unit to the wall. Ensure it is level and firmly fixed.
3. **Plug In:** Insert the NEMA 14-50 plug of the charger into the dedicated 240V NEMA 14-50 outlet.
4. **Cable Management:** Utilize the included cable management hook to neatly store the charging cable when not in use.

Important: Always ensure the circuit breaker for the NEMA 14-50 outlet is OFF before plugging in or unplugging the charger for the first time or during maintenance.

6. OPERATING INSTRUCTIONS

Operating your Wattsaving EV Charger is simple and secure.

Charging Your Vehicle:

1. **Activate the Charger (RFID):** If RFID security is enabled, swipe one of the provided RFID cards over the designated sensor area on the charger. The indicator light will change, signaling readiness.
2. **Connect to Vehicle:** Open your vehicle's charging port and firmly insert the J1772 connector from the Wattsaving charger. Ensure it clicks into place.
3. **Charging Begins:** The charger will automatically initiate the charging process. The indicator light on the charger will typically show a specific pattern (e.g., blinking green) to indicate active charging.
4. **Monitor Charging:** You can monitor the charging status via your vehicle's dashboard or companion app, if available.
5. **End Charging:** To end a charging session, first stop the charging from your vehicle (if applicable), then press the release button on the J1772 connector and pull it out from your vehicle's charging port.
6. **Store Cable:** Neatly coil the charging cable and hang it on the cable management hook to prevent damage and keep the area tidy.

RFID Card Management:

The charger comes with RFID cards for secure access. By default, the RFID function might be deactivated. To activate or manage RFID:

- Refer to the specific instructions provided with your charger for enabling/disabling RFID and pairing new cards. This usually involves holding a reset button or specific sequence.
- Once activated, only authorized RFID cards can initiate a charging session.

Secure Charging

Charging with Confidence



Image Description: This image illustrates the ease and security of charging, showing two children confidently connecting the EV charger to a vehicle, symbolizing user-friendly operation.

7. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Wattsaving EV Charger.

- **Cleaning:** Periodically wipe down the charger unit and cable with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners. Ensure the unit is unplugged before cleaning.
- **Cable Inspection:** Regularly inspect the charging cable and connector for any signs of wear, cuts, fraying, or damage. If any damage is observed, discontinue use immediately and contact customer support.
- **Connection Points:** Ensure the NEMA 14-50 plug and the J1772 connector are free from dirt, debris, or moisture before each use.
- **Storage:** When not in use, always store the charging cable neatly on the provided hook to prevent tangling or damage.

8. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Charger not powering on	No power from outlet; tripped circuit breaker; loose connection.	Check the NEMA 14-50 outlet and circuit breaker. Ensure the plug is fully inserted.
Charging not starting	RFID not activated; connector not fully inserted; vehicle not ready to charge.	Swipe RFID card again. Ensure J1772 connector is securely latched. Check vehicle's charging settings.
Charging stops unexpectedly	Vehicle battery full; power interruption; charger fault.	Check vehicle's charge status. Verify power supply. Unplug and re-plug the charger.
Indicator light shows error	Internal fault; overcurrent/overvoltage protection activated.	Unplug the charger from the outlet for 5 minutes, then plug it back in. If the error persists, contact customer support.

If the problem persists after attempting these solutions, please contact Wattsaving customer support for assistance.

9. SPECIFICATIONS

Brand	Wattsaving
Model Number	US10-NEMA14-Black
Product Dimensions	13 x 7.9 x 4.6 inches
Item Weight	14.6 pounds
Color	Black
Output Voltage	240 Volts
Max Charge Rate	9.6 kW
Connector Type	J1772
Plug Type	NEMA 14-50
Cable Length	24.6 Feet

IP Rating	IP65
Manufacturer	SHENZHEN WATTSAVING ELECTRICAL TECHNOLOGY CO.,LTD

10. WARRANTY AND SUPPORT

Wattsaving stands behind the quality of its products.

- **Warranty:** This Wattsaving Level 2 EV Charger comes with a **2-year warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.
- **Technical Support:** Wattsaving provides exceptional technical support. If you have any questions, require assistance with installation, or encounter any issues not covered in the troubleshooting section, please contact Wattsaving customer service.

For support, please visit the official Wattsaving website or refer to the contact information provided with your product packaging.