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› AVAPOW Level 2 EV Charger (Model B1-40) User Manual

AVAPOW B1-40

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Brand:AVAPOW | Model:B1-40

1. INTRODUCTION

Thank you for choosing the AVAPOW Level 2 EV Charger, Model B1-40. This portable electric vehicle charging solution is designed for efficient and safe charging of J1772 compatible electric vehicles. This manual provides essential information for the proper installation, operation, and maintenance of your charger. Please read it thoroughly before use to ensure optimal performance and safety.



Figure 1: AVAPOW Level 2 EV Charger, Model B1-40.

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Video 1: Overview of the AVAPOW B140 Portable EV Charger, highlighting its features and ease of connection.

2. IMPORTANT SAFETY INFORMATION

Always adhere to the following safety guidelines to prevent injury, damage to the product, or damage to your vehicle:

- Read all instructions before using this product.
- Do not use the charger if it is damaged, frayed, or shows any signs of wear.
- Ensure the NEMA 14-50 outlet is properly installed and grounded by a qualified electrician.
- Do not attempt to open, disassemble, or modify the charger.
- Keep children and pets away from the charging area.

- Avoid submerging the charger in water, despite its waterproof rating.
- Do not use extension cords or adapters unless explicitly approved by the manufacturer and rated for the charger's power requirements.
- Disconnect the charger from the power source before cleaning or maintenance.
- In case of a fault or error, immediately disconnect the charger and contact customer support.

10 SAFETY PROTECTION FEATURES



Figure 2: The AVAPOW charger incorporates 10 intelligent safety protection features, including over-voltage, over-temperature, lightning, short-circuit, over-current, over-load, leakage, ground, emergency, and under-voltage protection.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- AVAPOW Level 2 EV Charger (Model B1-40) with 25ft cable and NEMA 14-50 plug
- Wall-mounted holder
- Carry bag

- User Manual (this document)
- Installation screws



Figure 3: The portable design includes a NEMA 14-50 plug, a 25ft charging cable, and a convenient carry bag.

4. PRODUCT SPECIFICATIONS

Feature	Specification
Brand	AVAPOW
Model Number	B1-40
Input Voltage	240 Volts
Output Voltage	240 Volts

Max Current	40 Amps
Max Power	9.6 kW
Cable Length	25 feet
Connector Type	J1772
Plug Type	NEMA 14-50
Item Weight	10.76 pounds
Product Dimensions	1.96 x 8.26 x 3.34 inches
Operating Temperature	-22°F to 122°F (-30°C to 50°C)
Waterproof Rating	IP65

5. SETUP AND INSTALLATION

The AVAPOW Level 2 EV Charger is designed for plug-and-play convenience with a NEMA 14-50 outlet. Ensure you have a dedicated 240V NEMA 14-50 outlet installed by a qualified electrician before proceeding.

5.1 Wall-Mounted Holder Installation (Optional)

1. Choose a suitable location near your NEMA 14-50 outlet, ensuring it's within reach of your vehicle's charging port and protected from direct impact.
2. Use the provided wall-mounted holder as a template. Mark the drilling points on the wall.
3. Drill pilot holes at the marked positions.
4. Insert the wall anchors (if applicable) and secure the holder to the wall using the provided screws.
5. Place the charger control box into the holder and wrap the cable around it for organized storage.

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*Video 2: Installation and usage guide for a portable Level 2 EV charger, demonstrating wall-mounted setup and basic operation.
(Source: WINUSUAL)*

5.2 Connecting the Charger

1. Ensure your NEMA 14-50 outlet is properly installed and the circuit breaker is ON.
2. Plug the NEMA 14-50 plug of the AVAPOW charger into the wall outlet. The charger's display will illuminate, indicating it is powered on.
3. The charger is now ready for use.

6. OPERATING INSTRUCTIONS

The AVAPOW charger features a smart display and app control for convenient operation.

6.1 Smart Display Overview

SMART DISPLAY

Display Screen

Current Switch Button

Time Booking Button

Indicator Light



Figure 4: The smart display provides real-time charging information and control buttons.

- **Display Screen:** Shows charging status, current, voltage, temperature, and other relevant data.
- **Current Switch Button (A):** Press to adjust the charging current.
- **Time Booking Button (T):** Press to set delayed charging times.
- **Indicator Light:** Displays the charging status (e.g., green for ready/charging, red for error).

6.2 Initiating Charging

1. Ensure the charger is plugged into the NEMA 14-50 outlet.
2. Open your electric vehicle's charging port.
3. Insert the J1772 charging connector firmly into your vehicle's charging port.
4. The charger will automatically begin charging, and the indicator light will show the charging status.



COMPATIBLE WITH ALL J1772 ELECTRIC VEHICLES



Kia



Porsche



Nissan



BMW



Hyundai



Ford



Mercedes
Benz



Chevrolet



Volkswagen



Rivian



Note: Tesla Requires an Adapter

Figure 5: The AVAPOW charger is compatible with all J1772 electric vehicles. Tesla vehicles require an adapter (not included).

6.3 Adjusting Charging Current

You can adjust the charging current directly on the charger's display or via the mobile app.

- **On Charger:** Press the "Current Switch Button (A)" to cycle through available amperage settings (e.g., 16A, 20A, 24A, 32A, 40A). Select the desired current.
- **Via App:** Use the dedicated mobile application to select and confirm your preferred charging current.

8 LEVELS OF CURRENT ADJUSTMENT

Meets a variety of charging needs to extend battery life

8A	➡➡➡➡	7.6miles
10A	➡➡➡➡	8.2miles
13A	➡➡➡➡	10 miles
16A	➡➡➡➡	12 miles
20A	➡➡➡➡	15 miles
24A	➡➡➡➡	18 miles
32A	➡➡➡➡	24miles
40A	➡➡➡➡	30miles



Figure 6: The charger offers multiple current adjustment levels to meet various charging needs and optimize battery life.

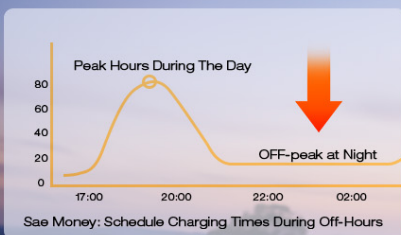
6.4 Delay Charging / Scheduling

To take advantage of off-peak electricity rates or schedule charging for a specific time, use the delay charging function.

- **On Charger:** Press the "Time Booking Button (T)" to set a delay for charging to start.
- **Via App:** The mobile application provides advanced scheduling options, allowing you to set specific start and end times for charging.

INTELLIGENT APP CONTROL

Save cost by scheduling automatic charging during off-peak hours



*Supports 2.4Ghz Wi-Fi only

Figure 7: Intelligent app control allows for monitoring charging status, adjusting current, delaying charging, and viewing charge history.

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Video 3: A seller-provided video demonstrating the features of a 40A Level 2 EV Charger, including adjustable current and time settings, and real-time display of charging data. (Source: SEGUMA INNOVATION)

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Video 4: A seller-provided video demonstrating how to use a portable EV charger, including setting current and delay times. (Source: ELE GROUP)

6.5 Stopping Charging

1. Once charging is complete (indicated by the vehicle or app), unlock your vehicle.

2. Press the release button on the J1772 connector and pull it out from the vehicle's charging port.
3. Return the charging connector to its holder and unplug the NEMA 14-50 plug from the wall outlet when not in use.

7. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your AVAPOW EV Charger.

- **Cleaning:**Wipe the charger and cables with a soft, dry cloth. Do not use abrasive cleaners or solvents. Ensure the charger is disconnected from power before cleaning.
- **Cable Care:**Avoid kinking, twisting, or driving over the charging cable. Store the cable neatly coiled when not in use.
- **Connector Protection:**Keep the J1772 connector clean and free of debris. Use the protective cap when the charger is not in use.
- **Storage:**Store the charger in its carry bag in a dry, cool place when not in regular use.



Figure 8:The charger features a stable and secure cable with 100% pure copper wire for enhanced stability and safer charging.

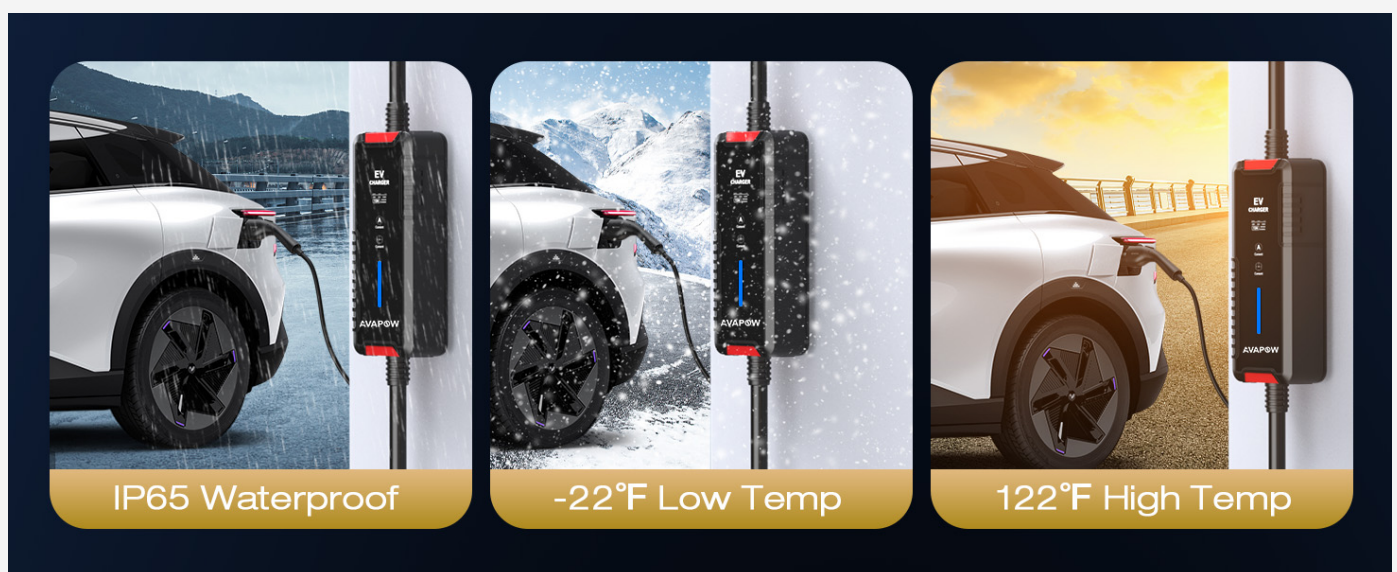


Figure 9:The charger is designed for durability with IP65 waterproof rating and operation in extreme temperatures from -22°F to 122°F.

8. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Charger not powering on	No power from outlet; loose connection	Check NEMA 14-50 outlet and circuit breaker. Ensure plug is fully inserted.
Charging not starting	Vehicle not ready; incorrect current setting; delayed charging active	Ensure vehicle is ready to charge. Adjust current setting. Check app for active delay schedules.
Error message on display	Internal fault; external issue (e.g., over-temperature)	Disconnect charger, wait 5 minutes, then reconnect. If error persists, contact customer support.
Slow charging speed	Low current setting; vehicle limitation	Increase charging current via display or app. Consult your vehicle's manual for its maximum charging rate.

For further assistance, please contact AVAPOW customer support.

9. WARRANTY AND SUPPORT

AVAPOW products are designed for reliability and performance. For warranty information, product registration, or technical support, please refer to the contact details provided on the AVAPOW official website or your purchase documentation.

Please have your model number (B1-40) and purchase date ready when contacting support.

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