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› Shell Level 2 EV Charger Model SEV-40-03 User Manual

Shell SEV-40-03

Shell Level 2 EV Charger Model SEV-40-03 User Manual

Model: SEV-40-03

1. PRODUCT OVERVIEW

The Shell Level 2 EV Charger, Model SEV-40-03, is a portable charging station designed for electric vehicles equipped with J1772 connectors. It offers adjustable current settings and a scheduling function for efficient charging at home or outdoors. This charger is ETL certified and Energy Star accredited, ensuring safety and energy efficiency.



Image 1.1: The Shell Level 2 EV Charger, including the charging unit, cable, and portable carrying case.

Key Features:

- **ETL Certified & Energy Star:** Ensures performance, safety, and reliability.
- **Rapid 9.6kW Charging:** Charges electric vehicles up to 7 times faster than a standard Level 1 outlet.
- **Versatile Charging Modes:** Adjustable current from 12A to 40A (240V) with Auto and Manual modes.
- **Schedule Charging:** Delayed charging function from 1 to 24 hours.
- **Universal Compatibility:** Works with all electric vehicles and plug-in hybrids with J1772 connectors (Tesla requires an adapter, not included).
- **Durable Design:** IP66 waterproof rating for outdoor use.
- **Extended Cable Length:** 24ft total cable length for convenient reach.

2. SAFETY INFORMATION

Read all safety instructions carefully before installation and use. Failure to follow these instructions may result in

electric shock, fire, or serious injury.

Important Safety Precautions:

- Ensure the charging station is connected to a properly grounded outlet.
- Do not use the charger if the cable or connector is damaged.
- Keep children and pets away from the charging area during operation.
- Do not immerse the charging unit in water.
- Avoid using extension cords or adapters not approved for EV charging.
- In case of abnormal operation, immediately disconnect the charger from the power source.

Obtained Full Certification

A Dual Seal of Quality and Power



Image 2.1: The charger is fully ETL Certified and Energy Star accredited, ensuring high standards of safety and quality.

6000V Surge Protection

Shell EV Chargers come with 6000V surge protection devices, safeguarding electronic equipment, preventing damage from voltage fluctuations, and ensuring the safety of EV charging.



Image 2.2: The charger includes 6000V surge protection to safeguard against voltage fluctuations.

50+

Safety Tests

Shell's EV chargers pass all of the following ETL and UL testing standards for safer charging.

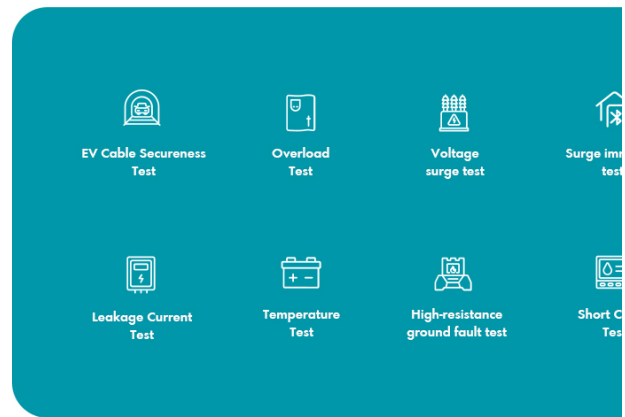


Image 2.3: The charger has undergone over 50 safety tests to meet ETL and UL testing standards.

3. WHAT'S IN THE BOX

Verify that all components are present upon unpacking.

- Shell 40A EV Charger Unit with 24ft Cable
- Portable EVA Carrying Case
- User Guide (this document)



Portable Case



Shell 40A EV Charger



User Guide

What's in The Box

Image 3.1: The package includes the portable case, the Shell 40A EV charger, and the user guide.

4. SETUP INSTRUCTIONS

1. **Unpack the Charger:** Remove the charger and all accessories from the packaging.
2. **Select a Location:** Choose a dry, well-ventilated area for charging. Ensure the 24ft cable can reach your vehicle's charging port without tension.
3. **Connect to Power:** Plug the NEMA 14-50 plug of the charger into a compatible 240V outlet. Ensure the outlet is properly installed and grounded.
4. **Initial Check:** The charger display should illuminate, indicating it is powered on and ready for use.

5. OPERATING INSTRUCTIONS

5.1 Connecting to Your Vehicle

1. Ensure your vehicle is turned off and in park.
2. Open the charging port cover on your electric vehicle.
3. Insert the J1772 connector firmly into your vehicle's charging port. A click indicates a secure connection.
4. The charger will automatically detect the vehicle and begin the charging process based on the selected mode.

5.2 Adjusting Charging Modes and Current

The charger offers adjustable current settings and two primary modes: Auto Mode and Manual Mode.

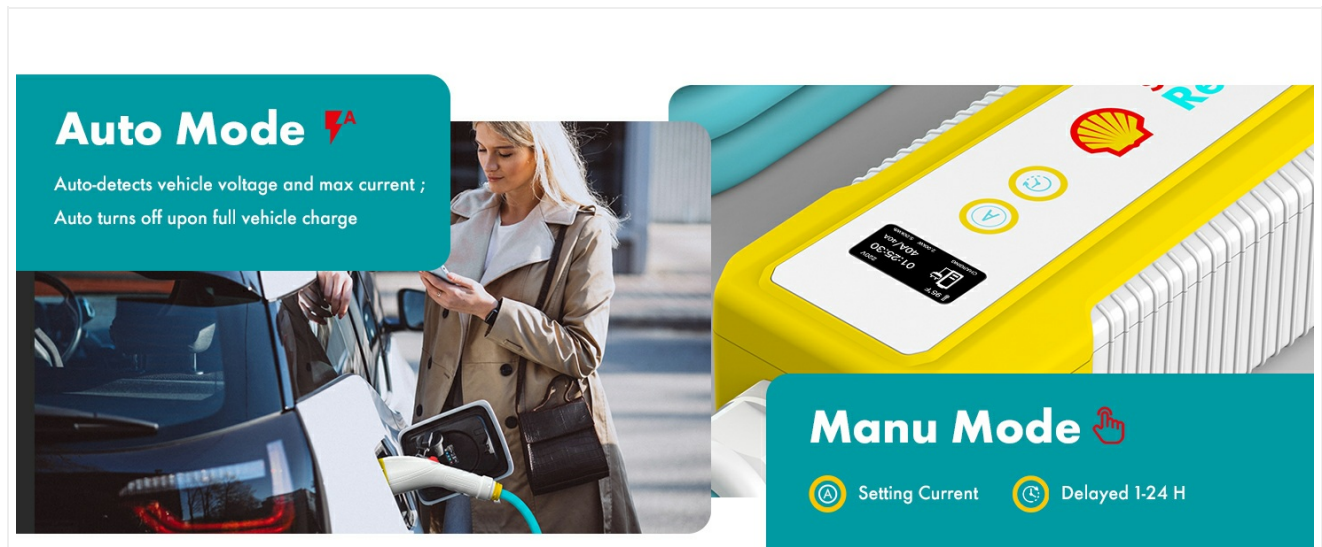


Image 5.1: The charger supports both Auto Mode for automatic current detection and Manual Mode for user-defined settings.

- **Auto Mode:** The charger automatically detects the vehicle's voltage and maximum current capacity, then delivers the highest possible current for rapid charging.
- **Manual Mode:** Allows you to select the charging current. Available options are 12A, 16A, 24A, 32A, and 40A (at 240V). Use the control buttons on the charger unit to cycle through these options. Lower amperage settings can optimize battery life.



Adjustable Current

12/16/24/32/40A Adjustable Charging

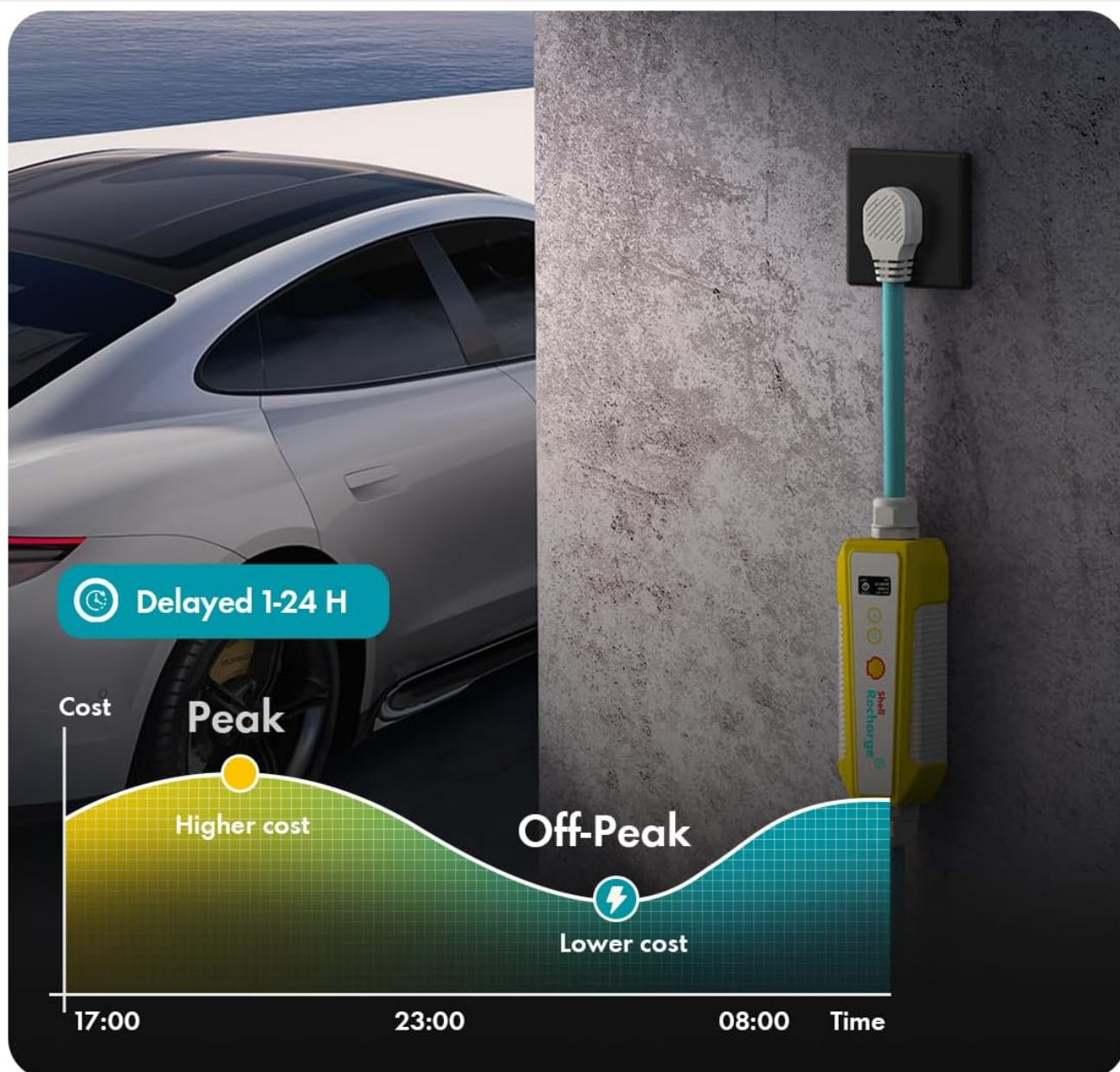


Image 5.2: The charger allows current adjustment from 12A to 40A, providing flexibility for charging needs.

5.3 Scheduling Charging Time

The delayed charging function allows you to schedule charging for 1 to 24 hours in advance, which can help reduce electricity costs during off-peak hours.

1. While in Manual Mode, use the control buttons to access the scheduling function.
2. Set the desired delay time in hours (1-24).
3. Confirm the setting. The charger will begin charging after the set delay.



Scheduled Charging

Time Delayed Charging: 1 to 24 Hours



Image 5.3: The charger supports scheduled charging, allowing users to set a delay from 1 to 24 hours.

5.4 Disconnecting the Charger

1. Ensure the charging process has completed or is paused.
2. Press the release button on the J1772 connector.
3. Gently pull the connector out of the vehicle's charging port.
4. Replace the charging port cover on your vehicle.

5. Unplug the charger from the wall outlet when not in use for extended periods.

6. COMPATIBILITY

The Shell Level 2 EV Charger is designed for broad compatibility with electric vehicles.

- **J1772 Standard:** Compatible with all electric vehicles and plug-in hybrids that use the J1772 charging standard.
- **Tesla Vehicles:** Tesla owners will require an additional SAE J1772 adapter (not included) to use this charger.

Tesla



Ford



Chevrolet



Nissan



BMW



Audi



Porsche



Benz



For All J1772 EVs

Tesla owners require an SAE J1772 adapter (not included)



7. MAINTENANCE

Proper maintenance ensures the longevity and safe operation of your EV charger.

- **Cleaning:** Wipe the charger unit and cable with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Storage:** When not in use, store the charger in its portable EVA case in a dry, cool place, away from direct sunlight.
- **Cable Inspection:** Regularly inspect the charging cable and connector for any signs of wear, cuts, or damage. If damage is found, discontinue use and contact customer support.
- **Waterproof Rating:** The charger has an IP66 waterproof rating, making it suitable for outdoor use in various weather conditions. However, avoid prolonged submersion.

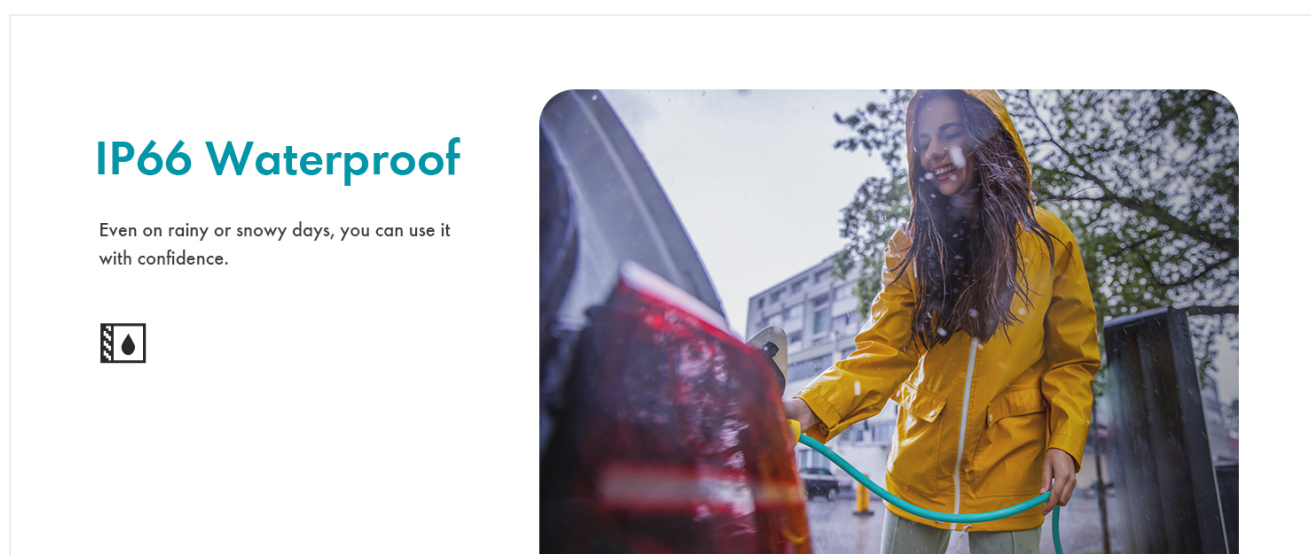


Image 7.1: The IP66 waterproof rating ensures the charger can be used reliably in rainy or snowy conditions.

8. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Charger not powering on	No power from outlet; loose connection; internal fault.	Check the power outlet with another device. Ensure the NEMA 14-50 plug is fully inserted. If the issue persists, contact customer support.
Charging not starting	Vehicle not properly connected; vehicle charging port issue; scheduled delay active; charger fault.	Ensure the J1772 connector is securely latched. Check your vehicle's charging status. Verify if a charging schedule is set. Try restarting the charger by unplugging and replugging.
Slow charging speed	Low current setting; vehicle limitation; power supply issue.	Check the current setting on the charger and ensure it is set to the desired amperage (e.g., 40A for maximum speed). Consult your vehicle's manual for charging specifications.

Problem	Possible Cause	Solution
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Error message on display	Specific fault detected by the charger.	Note the error code or message. Refer to the specific error code section in a more detailed manual (if available) or contact customer support with the error information.
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If these steps do not resolve the issue, please contact Shell customer support for further assistance.

9. SPECIFICATIONS

Feature	Detail
Model Number	SEV-40-03
Charging Level	Level 2
Maximum Current	40A
Voltage	240V
Maximum Power	9.6kW
Adjustable Current Options	12A, 16A, 24A, 32A, 40A
Connector Type	J1772
Power Plug Type	NEMA 14-50
Cable Length	24 feet
Waterproof Rating	IP66
Certifications	ETL, Energy Star, FCC
Product Dimensions	5.5 x 20.07 x 16.14 inches
Item Weight	7 pounds

10. WARRANTY AND SUPPORT

Shell EV chargers come with a 1-year limited warranty from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

What the Warranty Covers:

- Manufacturing defects.

- Malfunctions under normal operating conditions.

What the Warranty Does Not Cover:

- Damage caused by misuse, abuse, or improper installation.
- Damage from unauthorized repairs or modifications.
- Normal wear and tear.

Customer Support:

For warranty claims, technical support, or any questions regarding your Shell EV Charger, please contact our customer service team. We provide lifetime technical support and 24-hour sales service.

Please have your model number (SEV-40-03) and proof of purchase ready when contacting support.