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EVMaster 28FT 32Amp Portable EV Charger (B0CLGVJNZH)

EVMaster Level 2 Portable EV Charger User Manual

Model: 28FT 32Amp Portable EV Charger (B0CLGVJNZH)

Brand: EVMaster

1. INTRODUCTION

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



Figure 1.1: The EVMaster Level 2 Portable EV Charger, including the charging unit, NEMA 14-50P plug, and a portable carrying bag.

2. SAFETY INFORMATION

Always adhere to the following safety precautions to prevent injury, damage to the product, or damage to your vehicle.

- **Electrical Safety:** Ensure the NEMA 14-50P outlet is properly installed and grounded by a qualified electrician. Do not use extension cords or adapters not specifically designed for EV charging.
- **Environmental Conditions:** The charger is designed for use in various weather conditions (IP67 control box), but avoid submerging it in water. Do not operate if the charger or cable is visibly damaged.
- **Overheating Protection:** The charger features intelligent overheat protection. If the unit becomes excessively hot, it will automatically reduce current or stop charging.
- **Children and Pets:** Keep the charger and cables out of reach of children and pets during operation.
- **Ventilation:** Ensure adequate ventilation around the charging unit during operation to prevent heat buildup.
- **UL Certification:** The EV connector and cable are UL certified, ensuring compliance with safety standards.

Compatible with all J1772 EVs



Nissan
LEAF/LEAF S/PLUS...



BMW
i3,5 Series 530e...



Ford
Fusion Energi, C-Max Energi...



Chevrolet
Volt, Bolt EV EUV...



Toyota
Prius Prime, RAV4 Prime...



Mitsubishi
Outlander



Hyundai
Ioniq, Kona Electric...



Honda
Clarity Electric/PHEV...



Figure 2.1: The charger incorporates multiple protection mechanisms, including over-current, over-voltage, under-voltage, overheating, and leakage protection, along with Type 8X waterproof rating.

3. WHAT'S IN THE BOX

Upon opening the package, please verify that all the following components are included:

- EVMaster Level 2 Portable EV Charger (with integrated cable and NEMA 14-50P plug)
- Portable Carrying Bag
- Operating Manual (this document)

Excellent protection



Over-current



TYPE 8X
Waterproof



Under-voltage



Over-voltage



Overheating



Leakage



Figure 3.1: Visual representation of the items included in the product packaging.

4. SPECIFICATIONS

Feature	Specification
Model	28FT 32Amp Portable EV Charger
Input Voltage	240 Volts
Output Voltage	240 Volts (DC)
Current Rating	Adjustable: 10A/16A/24A/32A
Cable Length	28 Feet
Plug Type	NEMA 14-50P
EV Connector Type	SAE J1772 (Type 1)
Protection Rating	IP67 (Control Box)
Certifications	ETL Certified (Control Box), UL Certified (EV Connector and Cable)
Product Dimensions	20 x 12 x 4 inches
Item Weight	10.36 pounds (4.71 Kilograms)

5. SETUP AND INSTALLATION

The EVMaster portable charger is designed for ease of use. Follow these steps for initial setup:

5.1 Power Source Requirements

- The charger requires a dedicated 240-volt NEMA 14-50P outlet. This is a common outlet type for electric ranges or RV hookups.
- Ensure the circuit breaker for the outlet is rated appropriately for the desired charging amperage (e.g., a 50-amp breaker for 32-amp charging).

5.2 Connecting the Charger

1. Locate a suitable NEMA 14-50P outlet.
2. Plug the charger's NEMA 14-50P plug firmly into the outlet.
3. The control box LCD screen will illuminate, indicating it is powered on and ready for connection.

What'S in the box



Figure 5.1: The charger is easily connected to a standard NEMA 14-50P outlet for portable power.

6. OPERATING INSTRUCTIONS

Operating your EVMaster charger is straightforward. No app, Wi-Fi, or Bluetooth connection is required.

6.1 Connecting to Your Electric Vehicle

1. Ensure the charger is plugged into the NEMA 14-50P outlet.
2. Open your vehicle's charging port.
3. Insert the SAE J1772 connector firmly into your vehicle's charging port until it clicks into place.
4. The charger will automatically begin the charging process. The LCD screen will display real-time charging data.



LED light indicates charging status.



Figure 6.1: Simply plug the charger into your EV's charging port to begin charging.

6.2 Understanding the LCD Screen and LED Indicators

The control box features an intuitive LCD screen and LED indicator lights to provide real-time charging status.

- **LCD Screen:** Displays information such as actual charging voltage, selected amperage limit, actual charging power (kW), actual charging amperage, and total energy delivered (kWh).
- **LED Indicators:**
 - **Solid Green:** Waiting for connection.
 - **Pulsing Green:** Charging in progress.
 - **Solid Light Green:** Fully charged.
 - **Solid Red:** Error. Refer to the Troubleshooting section.



Figure 6.2: The LED light on the control box clearly indicates the charging status.

6.3 Adjusting Amperage

The charger allows you to adjust the charging amperage to suit your needs or the capacity of your electrical circuit. The available settings are 10A, 16A, 24A, and 32A.

1. With the charger plugged into the wall but NOT connected to the vehicle, press the 'SET' button on the control box.
2. Each press will cycle through the available amperage settings.
3. Once you have selected your desired amperage, connect the charger to your vehicle. The charger will remember the last selected setting for future use.

7. COMPATIBILITY

The EVMaster Level 2 Portable EV Charger is compatible with most electric vehicles and plug-in hybrid vehicles that comply with the SAE J1772 standard (Type 1 connector).

- **SAE J1772 Standard:** This is the common charging standard for most EVs in North America.
- **Tesla Vehicles:** Tesla vehicles require a separate J1772 to Tesla adapter (not included) to use this charger.



Portable power

Store this portable EV charger in your vehicle, so you're always prepared for quick and easy charging whenever you need it during your road trips.

Figure 7.1: The charger is compatible with all J1772 EVs, including electric and plug-in hybrid vehicles from various manufacturers. A Tesla adapter is required for Tesla vehicles.

8. MAINTENANCE

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

- **Cleaning:** Regularly wipe down the control box and cables with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners. Ensure the connector is free of dust and debris.
- **Cable Care:** Avoid kinking, twisting, or driving over the charging cable. Store the cable neatly when not in use.
- **Storage:** When not in use, store the charger in its portable carrying bag in a dry, cool place, away from direct sunlight and extreme temperatures.

Portable bag



Figure 8.1: The included portable bag allows for effortless storage and convenient transport of the charger in your vehicle.

9. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Charger not powering on (LCD dark)	No power from outlet; loose connection.	Check the NEMA 14-50P outlet and ensure the plug is fully inserted. Check the circuit breaker.
Charging not starting (LED solid green)	EV connector not fully inserted; vehicle not ready to charge.	Ensure the J1772 connector is fully seated in the vehicle's port. Check your vehicle's charging settings.
LED indicator is solid red (Error)	Internal fault; over-current/voltage; overheating.	Unplug the charger from the wall and the vehicle. Wait 5 minutes, then plug it back in. If the error persists, contact customer support.
Charging speed is slower than expected	Amperage setting is low; vehicle's charging limit; power supply issue.	Adjust the charger's amperage setting to a higher value (up to 32A). Check your vehicle's charging settings. Ensure the outlet can provide sufficient power.

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

10. WARRANTY AND SUPPORT

EVMaster is committed to providing high-quality products. This charger is ETL certified, ensuring it meets rigorous safety and performance standards.

For any product inquiries, technical support, or warranty claims, please contact EVMaster customer service through the retailer where you purchased the product or visit the official EVMaster store online. Please have your product model number (B0CLGVJNZH) and purchase date ready when contacting support.