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MEGEAR B0CTDS4D1P

MEGEAR Level 1-2 EV Charger User Manual

Model: B0CTDS4D1P

Portable Electric Vehicle Charger for J1772 EVs with NEMA 6-20 Plug and NEMA 5-15 Adapter

1. Introduction

Thank you for choosing the MEGEAR Level 1-2 EV Charger. This manual provides essential information for the safe and efficient operation of your new electric vehicle charger. Please read this manual thoroughly before use and retain it for future reference.

Important Safety Information

- Always connect the charger to a properly grounded power outlet.
- Do not use the EV charger if it is damaged, appears cracked, frayed, broken, or otherwise damaged.
- Do not attempt to open, disassemble, repair, tamper with, or modify the EV charger. User-serviceable parts are not inside.
- Ensure the charging cable is not exposed to severe rain, snow, electrical storms, or other inclement weather during use.
- Do not touch the EV charger's end terminals with sharp metallic objects.



Figure 1: MEGEAR Level 1-2 EV Charger components.

2. What's in the Box

Verify that all items listed below are included in your package:

- MEGEAR Level 1-2 EV Charger (with integrated NEMA 6-20 plug and J1772 connector)
- NEMA 5-15 Adapter
- User Manual
- Carry Bag
- Velcro Cable Tie



Figure 2: Package contents of the MEGEAR EV Charger.

3. Key Features

- **Dual Level Charging:** Supports both Level 1 (110V) and Level 2 (240V) charging for versatile use.
- **High Amperage:** Delivers up to 16 Amps for efficient charging.
- **Extended Cable Length:** Features a 25-foot cable for convenient reach.
- **Universal Compatibility:** Equipped with a J1772 connector, compatible with all SAE J1772 electric vehicles. Also Tesla-compatible with a J1772 to Tesla adapter (sold separately).
- **Comprehensive Safety:** Includes over-voltage, over-current, short circuit, ground protection, overheating protection, leakage protection, and lightning protection.
- **Durable Design:** Dustproof and waterproof (IP65 rated) for reliable outdoor use, designed to withstand harsh conditions.
- **Portable:** Comes with a carry bag for easy transport and storage.



Figure 3: High-power charging capabilities of the MEGEAR EV Charger.



Figure 4: Integrated safety features for secure charging.

4. Setup Instructions

4.1 Power Connection

The MEGEAR EV Charger comes with a NEMA 6-20 plug for Level 2 charging. A NEMA 5-15 adapter is included for Level 1 charging.

1. **For Level 2 Charging (240V, 16A):** Plug the charger's NEMA 6-20 plug directly into a compatible 240V NEMA 6-20 wall socket. Ensure the socket is properly installed and grounded.
2. **For Level 1 Charging (110V, 12A max recommended):** Attach the NEMA 5-15 adapter to the charger's NEMA 6-20 plug. Then, plug the NEMA 5-15 adapter into a standard 110V household outlet. It is recommended to set your vehicle's charging current to 12 Amps or lower when using a 110V outlet to prevent overheating of the household circuit.

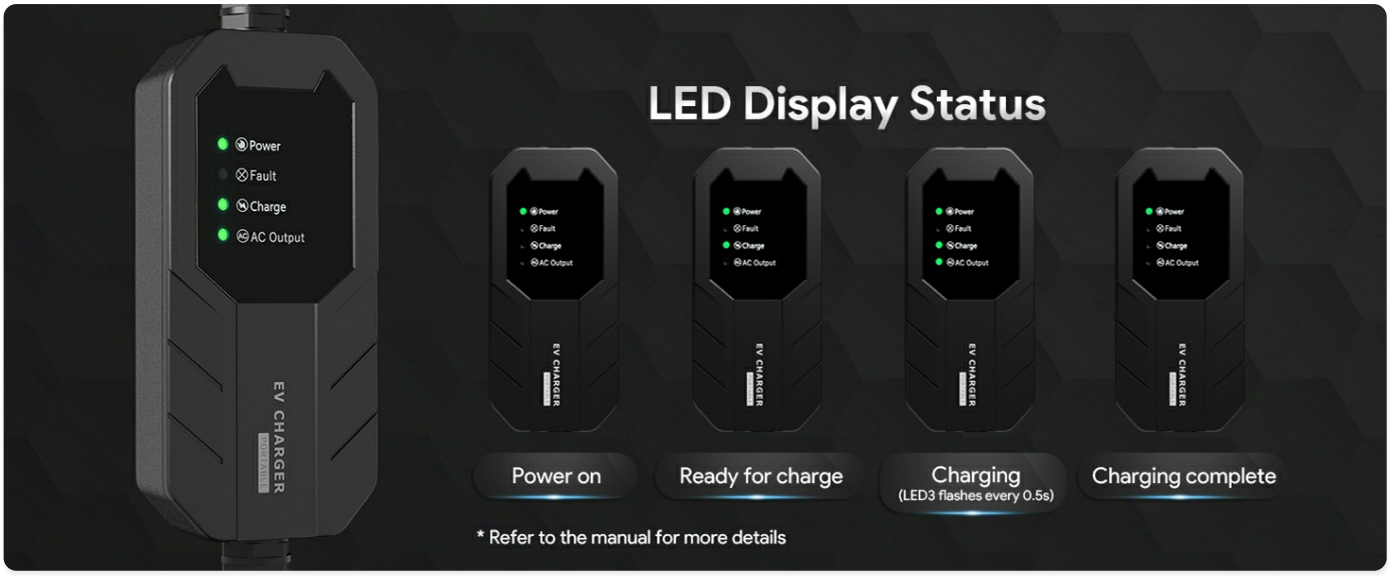

Figure 5: NEMA 6-20 plug and NEMA 5-15 adapter for power connection.

4.2 Vehicle Connection

1. Open your electric vehicle's charging port.
2. Insert the J1772 connector firmly into the vehicle's charging port. Ensure a secure connection.



Figure 6: J1772 connector inserted into an EV charging port.

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Video 1: Demonstrates the process of connecting the portable EV charger to a wall socket and then to the vehicle's charging port, showing indicator lights for successful connection and charging status.

5. Operating Instructions

5.1 LED Indicator Status

The control box features LED indicators to display the charger's status:

- **Power (Green):** Solid green indicates the charger is powered on.
- **Fault (Red):** Flashing red indicates an error. Refer to the troubleshooting section.

- **Charge (Green):** Blinking green indicates active charging. Solid green indicates charging is complete.
- **AC Output (Green):** Solid green indicates AC power is being supplied to the vehicle.



Figure 7: Understanding the LED indicator lights.

5.2 Starting and Stopping Charging

1. Once the charger is connected to both the power source and the vehicle, charging will typically begin automatically.
2. To stop charging, disconnect the J1772 connector from your vehicle first, then unplug the charger from the wall outlet.

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Video 2: Overview of the MEGEAR Level 1-2 EV Charger, demonstrating its compact size and ease of use for charging an electric vehicle.

6. Maintenance and Storage

- Keep the charger clean and free from dust and debris. Use a soft, dry cloth for cleaning.
- Store the charger in its provided carry bag when not in use to protect it from damage.
- Avoid storing the charger in direct sunlight or extreme temperatures.
- Ensure the dust cap is placed over the J1772 connector when not in use.



Figure 8: Portable design with included carry bag for easy storage.

7. Troubleshooting

If you encounter issues, refer to the LED indicator status on the control box and the table below:

Condition	Power (Green)	Fault (Red)	Charge (Green)	AC Output (Green)
Initial Status	On	Flash 2s	Flash 2s	Flash 2s
Ready for Charging	On	Off	Off	Off
Contact	On	Off	On	Off
Charging	On	Off	Flash 0.5s	On
Charge Complete	On	Off	On	Off
NG1: AC Voltage Error	On	Flash Once	Off	Off
NG2: AC Current Error	On	Flash Twice	Off	Off
NG3: CP Function Error	On	Flash 3 Times	Off	Off
NG4: Leakage Error	On	Flash 4 Times	Off	Off
NG5: FG/PE Error	On	Flash 5 Times	Off	Off

NOTE: Charging will not be interrupted when FG/PE error occurs; please contact your electrician to check the ground wire.

8. Specifications

- **Input Voltage:** 100-265V AC
- **Output Current:** 16A Max
- **Operating Temperature:** -30°C to +50°C (-22°F to 122°F)
- **Cable Length:** 25 feet
- **Connector Type:** J1772
- **Power Plug:** NEMA 6-20 (with NEMA 5-15 adapter)
- **Protection:** IP65 (Dustproof & Waterproof)
- **Item Weight:** 8.49 pounds
- **Product Dimensions:** 300 x 75 x 91.44 inches (Control Box)

9. Warranty and Support

The MEGEAR Level 1-2 EV Charger is backed by a**1-year limited warranty**. Additionally, lifetime technical support is provided to assist you with any questions or issues you may encounter during the product's lifespan.

For warranty claims or technical assistance, please contact MEGEAR customer service through the retailer where the product was purchased or visit the official MEGEAR website.

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