EQBVZZRD EQBVZZRD

EQBVZZRD Portable EV Charger (SAE J1772 Type 1, 16A, 5m) Instruction Manual

This manual provides essential information for the safe and efficient operation of your EQBVZZRD Portable EV Charger. Please read it thoroughly before use and retain it for future reference.

1. Safety Information

Before operating the EQBVZZRD Portable EV Charger, please observe the following safety precautions to prevent injury or damage:

- Ensure the power outlet used is properly grounded and rated for the charger's input voltage and current.
- Do not use the charger if the cable, plug, or control box is damaged. Contact customer support for assistance.
- Keep the charger away from water, flammable materials, and extreme temperatures. The unit has an IP65 rating for water resistance, but it is not designed for submersion.
- Do not attempt to open, disassemble, or modify the charger. Servicing should only be performed by qualified personnel.
- Always disconnect the charger from the power source before cleaning or performing any maintenance.
- Ensure the charging cable is not pinched, twisted, or run over by vehicles during use.
- This charger is equipped with multiple protection features including leakage, over-voltage, low-voltage, over-load, lightning, and over-heat protection. If a fault occurs, the charger will automatically stop charging.

2. Product Overview

The EQBVZZRD Portable EV Charger is designed for convenient and efficient charging of electric vehicles equipped with a SAE J1772 Type 1 charging port. It features an integrated control box with an LED display for monitoring charging status and adjustable current settings.



Figure 2.1: An overview of the EQBVZZRD portable EV charger, showing the control unit, charging cable, and the SAE J1772 Type 1

connector.

2.1 Components

- **Control Box:** Houses the intelligent charging circuitry, LED display, and control button.
- **Power Plug:** Connects to a standard wall outlet (110V-250V AC).
- **Charging Cable:** Durable cable connecting the control box to the vehicle connector.
- **SAE J1772 Type 1 Connector:** Plugs into your electric vehicle's charging port.



Figure 2.2: A detailed view of the SAE J1772 Type 1 connector, showing its pin configuration, alongside an illustration of a compatible electric vehicle inlet.

3. Specifications

Feature	Specification
Model	EQBVZZRD (Type 1 5m)

Feature	Specification
Phases	Single Phase
Output Power	3.5kW
Input Power	110V-250V AC
Charging Current	8A/10A/13A/16A (Adjustable)
Power Pins	3 pcs (L1, N, PE)
Signal Pins	2 pcs (CP, PD)
Signal Current	2A
Signal Voltage	30V AC
IP Rating	IP65
Operating Temperature	-25°C to +55°C
Cable Length	5 meters
Item Weight	2.2 kg (4.85 pounds)
Mechanical Life	Plug in/out > 10000 times
Impact Resistance	Withstands 2m drop and 2t vehicle run-over pressure
Insulation Resistance	> 1000MΩ (DC500V)
Housing Fire Rating	UL94V-0

4. Setup

Follow these steps to set up your EV charger for the first time:

1. **Unpack:** Carefully remove all components from the packaging. Inspect the charger for any signs of damage.
2. **Select Location:** Choose a dry, stable, and well-ventilated location for charging. Ensure the charger is within reach of both a suitable power outlet and your vehicle's charging port.
3. **Connect to Power:** Plug the charger's power plug securely into a compatible 110V-250V AC wall outlet. The control box display should illuminate.

5. Operating Instructions

5.1 Connecting to Your Vehicle

1. Ensure the charger's power plug is connected to the wall outlet.
2. Open your electric vehicle's charging port cover.
3. Firmly insert the SAE J1772 Type 1 connector into your vehicle's charging port. A click may be heard, indicating a secure connection.
4. The charger will initiate communication with the vehicle, and charging will begin automatically after a brief self-check.



Figure 5.1: The SAE J1772 Type 1 connector of the charger being inserted into the charging port of an electric vehicle, demonstrating its compatibility with various new energy vehicles.

5.2 Adjusting Charging Current

The charger allows you to adjust the charging current (8A, 10A, 13A, 16A) to suit your needs or the capacity of your electrical circuit.

1. Ensure the charger's power plug is connected to the wall outlet, but the SAE J1772 Type 1 connector is **disconnected** from the vehicle.
2. Locate the round button labeled 'A' on the control box.
3. Lightly touch the 'A' button to cycle through the available current settings (8A, 10A, 13A, 16A). The selected current will be displayed on the screen.
4. Once your desired current is set, connect the SAE J1772 Type 1 connector to your vehicle to begin charging at the chosen rate.



Figure 5.2: A close-up of the charger's control box, featuring the 'A' button for adjusting charging current (8A, 10A, 13A, 16A) and indicating a 1-10 hour delay charging function.

5.3 LED Display Information

The LED display on the control box provides real-time charging data:



Figure 5.3: This image illustrates the charger's LED display, showing real-time charging information such as current, temperature, and energy charged. It also highlights the SAE J1772 Type 1 connector.

- **Charging Temperature:** Displays the current operating temperature of the charger.
- **Charging Status:** Indicates if charging is active, paused, or complete.
- **Set Current:** Shows the currently selected charging amperage (e.g., 16A).
- **Energy Charged (KW/h):** Accumulates the total energy delivered to the vehicle.
- **Charged Time:** Displays the duration of the current charging session.
- **Charging Voltage:** Shows the real-time voltage during charging.
- **Charging Current:** Displays the real-time current flowing to the vehicle.
- **Charging Power:** Shows the real-time power delivery in kilowatts (KW).

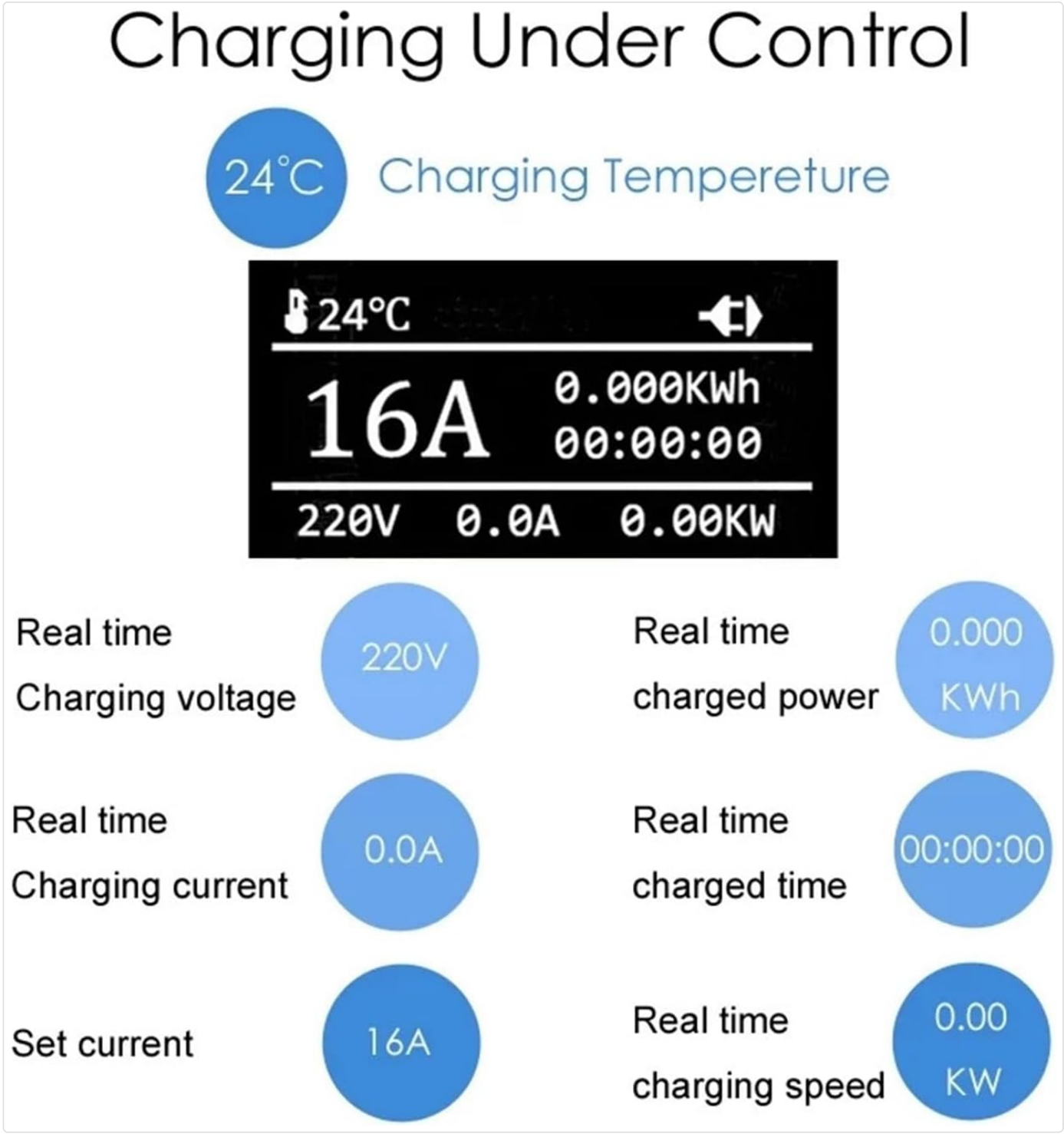


Figure 5.4: A detailed breakdown of the information presented on the LED display, including charging temperature, real-time voltage, current, charged power (KWh), charged time, and charging speed (KW).

5.4 Disconnecting from Your Vehicle

1. If your vehicle has a stop charging button, press it first.
2. Carefully remove the SAE J1772 Type 1 connector from your vehicle's charging port.
3. Disconnect the charger's power plug from the wall outlet when charging is complete or if the charger will not be used for an extended period.
4. Replace the protective cap on the SAE J1772 Type 1 connector to prevent dust and moisture ingress.

6. Maintenance

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

- **Cleaning:** Wipe the control box and cables with a soft, dry cloth. For stubborn dirt, use a slightly damp cloth and ensure the charger is completely dry before use. Do not use harsh chemicals or abrasive cleaners.
- **Cable Inspection:** Regularly inspect the charging cable, power plug, and vehicle connector for any signs of wear, cuts, fraying, or damage. If any damage is found, discontinue use immediately and contact customer support.
- **Storage:** When not in use, store the charger in a dry, clean, and cool place, away from direct sunlight and extreme temperatures. Coil the cable neatly to prevent kinks or damage.

7. Troubleshooting

The EQBVZZRD Portable EV Charger is designed with several protection mechanisms. If an issue occurs, the charger will typically display an error or stop charging. Refer to the LED display for any error codes or indicators.

Problem	Possible Cause	Solution
Charger not powering on	No power from outlet; damaged power plug/cable	Check the wall outlet with another device. Inspect the power plug and cable for damage.
Charging does not start	Vehicle not ready to charge; connector not fully inserted; current setting too low for vehicle; internal fault	Ensure vehicle is ready to accept charge. Re-insert connector firmly. Adjust current setting. Disconnect and reconnect the charger.
Charging stops unexpectedly	Over-heat protection; over-current/voltage protection; ground fault; vehicle fault	Check charger and ambient temperature. Reduce charging current. Inspect for ground faults. Consult vehicle manual. Disconnect and reconnect.
LED display shows error	Specific fault detected by the control box	Note the error message/code. Disconnect the charger from both the wall and vehicle, wait a few minutes, then reconnect. If the error persists, contact customer support.

If you encounter persistent issues not resolved by the above steps, please contact EQBVZZRD customer support.

8. Warranty and Support

Specific warranty terms and conditions for the EQBVZZRD Portable EV Charger are not provided in this document. For detailed warranty information, product support, or to report any issues, please refer to the product packaging, the seller's website, or contact EQBVZZRD customer service directly.
When contacting support, please have your product model (EQBVZZRD) and purchase information readily available.

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