

## BESENERGY YM020-15A

# BESENERGY 15A EV Charger Level 1 J1772 EVSE

MODEL: YM020-15A USER MANUAL

## 1. Important Safety Information

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Please read all safety instructions carefully before using your BESENERGY EV Charger. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Electrical Safety:** Ensure the NEMA 5-15 outlet used is properly grounded and in good condition. Do not use extension cords or adapters.
- **Environmental Conditions:** The charger is rated IP66 for water and dust resistance, suitable for indoor and outdoor use. However, avoid submerging the unit in water.
- **Overheating:** Monitor the charger and wall plug during use. If the plug or charger housing becomes excessively hot, discontinue use immediately and contact support.
- **Physical Damage:** Do not use the charger if the cable, plug, or charging connector is damaged. Inspect the unit before each use.
- **Children and Pets:** Keep the charger and cables out of reach of children and pets during operation and storage.
- **Ventilation:** Ensure adequate ventilation around the charger during operation to prevent heat buildup.

## 2. Product Overview

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The BESENERGY 15A Level 1 EV Charger (Model YM020-15A) is a portable charging solution designed for electric vehicles with a J1772 connector. It provides convenient home charging using a standard 110V-120V NEMA 5-15 outlet.



Image 2.1: The BESENERGY 15A EV Charger, showing the control box, NEMA 5-15 wall plug, and J1772 vehicle connector.

### Key Features:

- **15A Charging:** Utilizes a standard NEMA 5-15 plug for Level 1 charging.
- **Multiple Protection:** Features lightning-proof, leakage, overvoltage, overheat, and overcurrent protection.
- **IP66 Rated:** Provides robust protection against dust and water ingress.
- **J1772 Compatibility:** Works with all major EVs and Plug-in Hybrid Vehicles equipped with a J1772 connector.
- **20ft Cable:** Offers extended reach for flexible charging placement.

## Compatible with all J1772 EVS & Plug-in Hybrid Vehicles

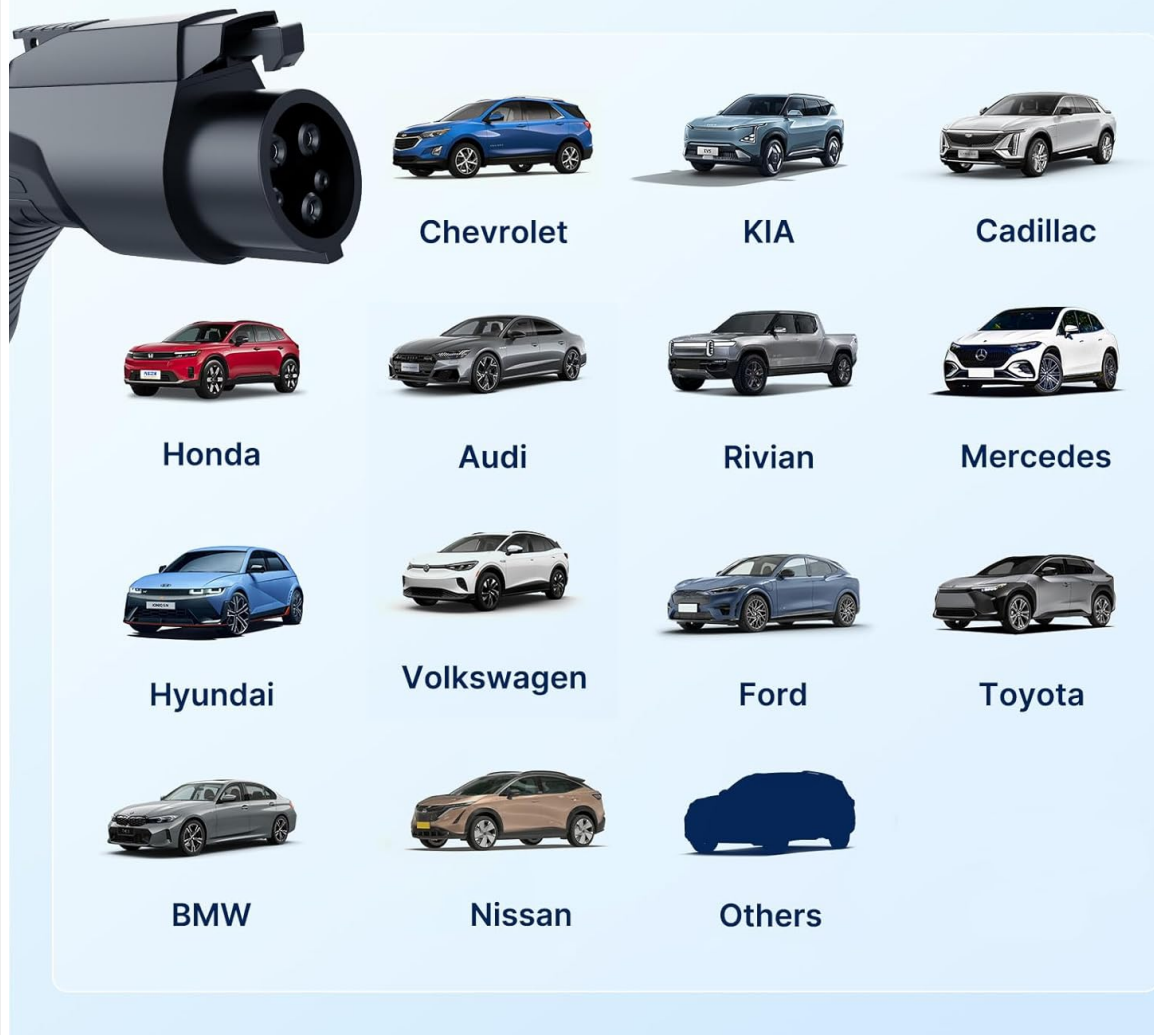


Image 2.2: Illustration of various electric vehicle brands compatible with the J1772 charging standard.

### 3. Setup

#### 3.1 Unpacking

Carefully remove the charger from its packaging. Inspect all components for any signs of damage. The package should include the BESENERGY 15A EV Charger and a storage bag.

#### 3.2 Installation Requirements

The BESENERGY 15A EV Charger requires no assembly. It is designed for plug-and-play operation with a standard NEMA 5-15 outlet.

- Ensure you have access to a dedicated 110V-120V NEMA 5-15 wall outlet.
- The outlet should be in good working condition and properly grounded.
- Avoid sharing the circuit with other high-power appliances to prevent circuit overload.

# NEMA 5-15 PLUG

You need NEMA 5-15 outlet(110V~120V)  
Plug the charging inlet



Image 3.1: Diagram illustrating the NEMA 5-15 plug and a compatible 110V-120V outlet.

## 4. Operating Instructions

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### 4.1 Connecting to Vehicle

1. Ensure your vehicle is parked and turned off.
2. Open the charging port cover on your electric vehicle.
3. Firmly insert the J1772 charging connector into your vehicle's charging port until it clicks into place.



## SAE J1772 Plug

Image 4.1: A hand inserting the SAE J1772 charging plug into an electric vehicle's charging inlet.

### 4.2 Charging Process

1. Plug the NEMA 5-15 wall plug into a suitable 110V-120V outlet.
2. The indicator lights on the charger's control box will illuminate, indicating power and charging status. Refer to your vehicle's display for charging progress.
3. Charging will begin automatically.



Image 4.2: The BESENERGY EV charger connected to an electric vehicle and a wall outlet, demonstrating outdoor charging.

### 4.3 Disconnecting

1. Once charging is complete, or if you need to stop charging, first unplug the NEMA 5-15 wall plug from the outlet.
2. Press the release button on the J1772 connector and carefully pull it out from the vehicle's charging port.
3. Close the vehicle's charging port cover.
4. Store the charger and cable properly to prevent damage.

## 5. Maintenance

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

- **Cleaning:** Wipe the charger and cables with a dry or slightly damp cloth. Do not use harsh chemicals or abrasive cleaners. Ensure the unit is unplugged before cleaning.
- **Storage:** When not in use, coil the cable neatly and store the charger in a dry, cool place, away from direct sunlight and extreme temperatures. Use the provided storage bag.
- **Inspection:** Regularly inspect the cable, plugs, and control box for any signs of wear, cuts, cracks, or

discoloration. If any damage is found, discontinue use and contact customer support.

- **Water Resistance:** The IP66 rating protects against strong jets of water and dust. While suitable for outdoor use, avoid prolonged exposure to heavy rain or snow, and do not immerse in water.



Image 5.1: The BESENERGY EV charger demonstrating its IP66 water resistance in a simulated rainy outdoor setting.

## 6. Troubleshooting

If you encounter issues with your charger, refer to the table below for common problems and solutions.

Problem	Possible Cause	Solution
Charger not powering on/no indicator lights.	No power from outlet, faulty outlet, or charger issue.	Check the wall outlet with another appliance. Ensure the plug is fully inserted. Try a different outlet. If problem persists, contact support.
Vehicle not charging.	J1772 connector not fully inserted, vehicle charging fault, or charger fault.	Ensure the J1772 connector is securely latched. Check vehicle's dashboard for charging errors. Unplug and re-plug both ends.

Problem	Possible Cause	Solution
Wall plug or charger control box feels excessively hot.	Overload, faulty outlet, or internal charger issue.	<b>Immediately unplug the charger.</b> Do not use the charger again. Contact customer support as this indicates a potential safety hazard.
Slow charging.	Vehicle settings, shared circuit, or low voltage from outlet.	Check vehicle's charging settings. Ensure the outlet is not shared with other high-draw devices. Verify outlet voltage if possible.



Image 6.1: Visual representation of the charger's multiple protection features, including undervoltage, lightning, over-temperature, leakage, overload, and short circuit protection.

## 7. Specifications

Detailed technical specifications for the BESENERGY 15A EV Charger (Model YM020-15A).

Feature	Specification
Model	YM020-15A
Charging Level	Level 1
Input Voltage	110V-120V AC
Current Rating	15 Amps
Wattage	3 KW
Connector Type (Vehicle)	SAE J1772
Plug Type (Wall)	NEMA 5-15
Cable Length	20 ft (approximately 6 meters)
IP Rating	IP66 (Waterproof)
Flame Resistance	UL94V-0 rating
Material Type	Plastic
Product Dimensions	40 x 12 x 6 cm
Item Weight	2.43 kg

## 8. Warranty Information

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BESENERGY provides a warranty for this product against defects in materials and workmanship under normal use. The specific duration and terms of the warranty may vary. Please retain your proof of purchase for warranty claims.

## 9. Customer Support

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For any questions, technical assistance, or warranty claims regarding your BESENERGY EV Charger, please contact our professional after-sales support team. We are committed to providing perfect service and addressing any concerns you may have.

Please refer to the contact information provided with your purchase or visit the official BESENERGY website for support details.