

BougeRV

User Manual

32A Level 2 EV Charger

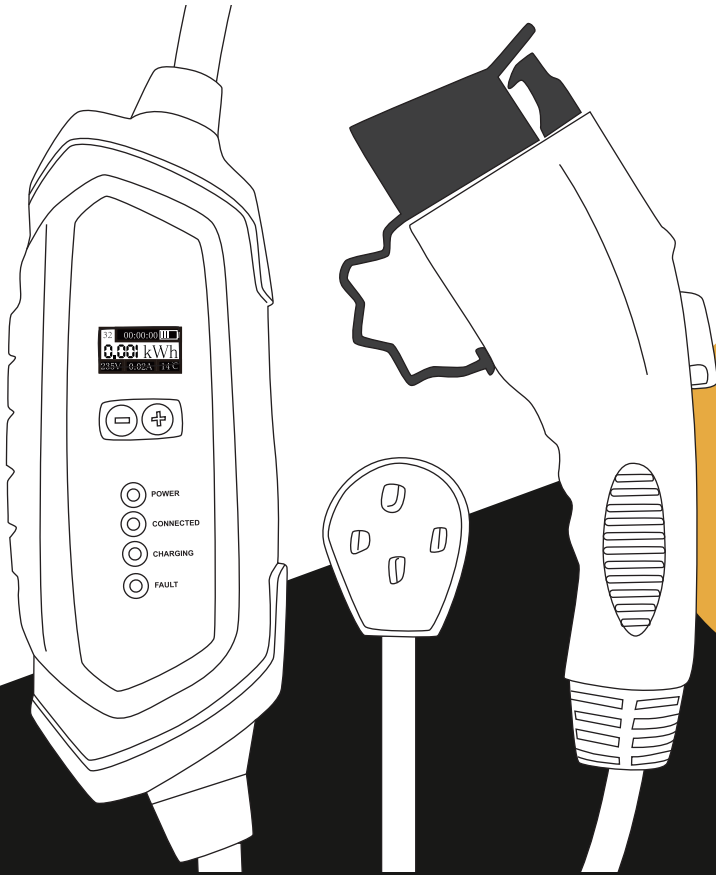


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Warranty

Limited Warranty

BougeRV provides a one-year warranty for customers who purchase on Amazon and BougeRV's official website.

Lifetime Technical Support

If there are any problems with the product, please feel free to contact us with pictures and video.

Warranty Period

The warranty is measured starting on the date of purchase by the original purchaser. In order to establish the start of the warranty period, the purchaser must provide a screenshot of the order from amazon or the website.

Customer Service



service@bougeerv.com



1-669-232-7427



www.bougeerv.com

Exclusions

BougeRV's warranty does not apply to:

- Product damage caused by the consumer not following the recommendations.
- Damage by disassembling the machine without authorization or going to a non-designated maintenance spot for maintenance.
- Products purchased neither on Amazon nor on BougeRV's official website.
- Modify or DIY privately without guidance by a licensed electrician.

Safety Instructions

Warning

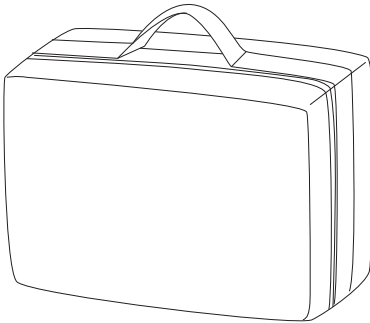
- It is recommended that electrical outlets for your charger should be installed by a licensed and qualified electrician. To avoid serious injury or death; installation must comply with the provisions of the National Electric Code (NEC) and all local codes.
- In order to prevent fire safety accidents caused by short circuits, it is recommended that you install a breaker above 40A.
- We do not recommend using the charger outdoor under severe weather conditions.
- Do not use the charger with any extension cords.
- Do not use the charger with any adapters.
- Withstand large currents during work, do not touch metal conductors to prevent electric shock accidents.
- The exterior of the product is made of thermoplastic, so it can't be hit by external force in order to avoid affecting the use.
- Operating ambient temperature is -30°C -- $+50^{\circ}\text{C}$: No acid, alkali and other corrosive gases in the surrounding environment to avoid affecting product performance.

Package List

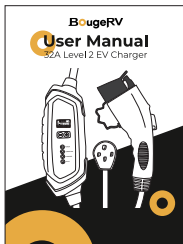
Check the package and make sure you receive all accessories. If any of these are missing, please feel free to contact us via service@bougeRV.com



32A Charger*1



Carrying Case*1

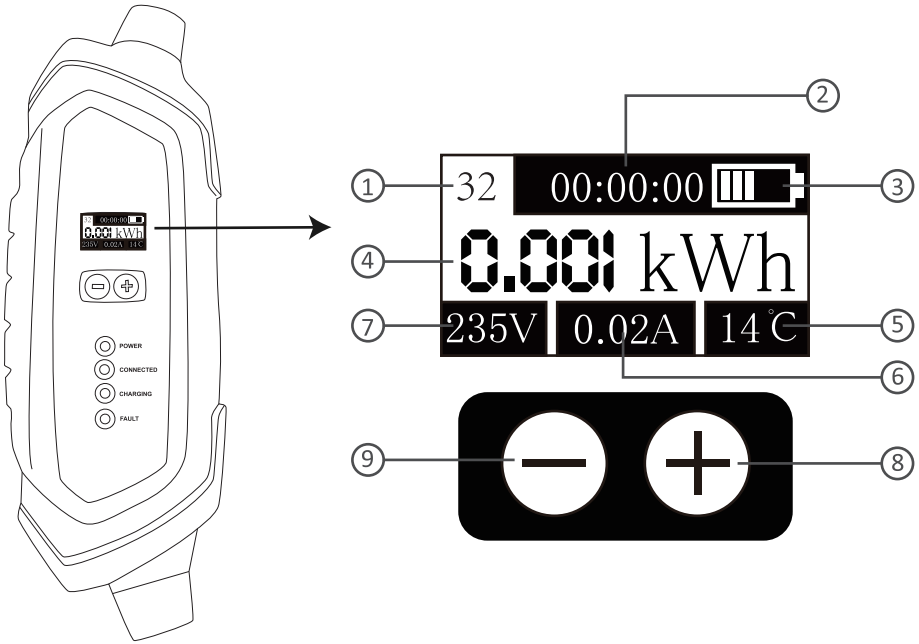






User Manual*1

Specifications

| | |
|--------------------------------|---|
| Charging Cord Length | 25Feet (7.5 meters) |
| Charging Cord Specification | 3*10awg+1*18awg UL cable |
| Connector Type | SAE J1772 |
| Plug Type | NEMA 14-50 Plug |
| Input | 240V AC 32A 50-60Hz |
| Output | 240V AC 32A 50-60Hz |
| Waterproof Rating | Charging Box - IP67 / Charging Plug - IPX3 |
| Output Power: | |
| 32A Mode: | Up to 7.2KW/h Max |
| 16A Mode: | Up to 3.6KW/h Max |
| 13A Mode: | Up to 2.9KW/h Max |
| 10A Mode: | Up to 2.2KW/h Max |
| Insulation Resistance: | >1000MΩ(DC500V) |
| Product Contact Impedance: | 0.5 mΩ Max |
| Withstand Voltage: | 2000V |
| Housing Fire Rating: | UL94 V-0 |
| Operating Ambient Temperature: | -30°C to +50°C / -22°F to +122°F |
| Certification: | CE UL (Plug) |
| Weight: | 11.69 pounds |
| Package Dimension: | 15.4" x 11.8" x 4.5" |

Charging Box Display Instructions



| | |
|---|---|
| ① | Rated Current |
| ② | Charging Time |
| ③ |  J1772 |
| |  Connected, Not Charging |
| |  Charging |
| |  Fully Charged |
| ④ | Energy |
| ⑤ | Power Plug Temperature |
| ⑥ | Charging Current |
| ⑦ | Charging Voltage |
| ⑧ | Rated Current Up Adjustment Key |
| ⑨ | Rated Current Down Adjustment Key |

Charging Box LED Indicator

| Condition | Power | Connected | Charging | Fault | Explanation |
|-----------|-------|-----------|-----------|-----------|---|
| ① | Off ○ | Off ○ | Off ○ | Off ○ | No power |
| ② | On ● | Off ○ | Off ○ | Off ○ | Have power, no connection |
| ③ | On ● | On ● | Off ○ | Off ○ | Connection, no charging |
| ④ | On ● | On ● | Flicker ◎ | Off ○ | Charging |
| ⑤ | On ● | On ● | On ● | Off ○ | Finished charging |
| ⑥ | On ● | On ● | Off ○ | On ● | Communication fault |
| ⑦ | On ● | On ● | Flicker ◎ | On ● | Abnormal current (SCP) |
| ⑧ | On ● | Flicker ◎ | Flicker ◎ | On ● | Leakage protection |
| ⑨ | On ● | Off ○ | Off ○ | Flicker ◎ | Overvoltage or undervoltage protection |
| ⑩ | On ● | On ● | On ● | On ● | Unit overheating protection |
| ⑪ | On ● | Off ○ | Off ○ | On ● | Power on self test error |

Troubleshooting

① - No Power

1. Check the circuit breaker and other circuit loads.
2. Try another wall outlet.
3. Ensure that the charger module (and adapter if operating in 240V AC mode) is fully inserted into the wall outlet.

② - Have Power, Not Connected

1. Remove the charge coupler from the vehicle, then reinsert it into the vehicle receptacle until it clicks.
2. Check whether it needs to be manually connected through the vehicle system.

③ - Connection, no charging

1. When you plug into the car, the car will automatically recognize the communication signal and start charging.
2. Verify that the vehicle charge timer is set to permit charging. Refer to the vehicle owner's manual for charge timer instructions.

④ - Charging

Charging

⑤ - Finished Charging

If the battery is still not fully charged, please check whether the upper limit value of the car battery has been manually set.

⑥ - Communication Fault

Please try to disconnect the power plug and reconnect it, if it still can't charge, please contact customer service for assistance.

⑦ - Abnormal Current (SCP)

Restore factory settings or re-plug the power outlet.

⑧ - Leakage protection

Turn off the power and the circuit breaker in time, and have a qualified electrician inspect.

⑨ - Overload or Undervoltage Protection

Restore factory settings or reconnect the power outlet.

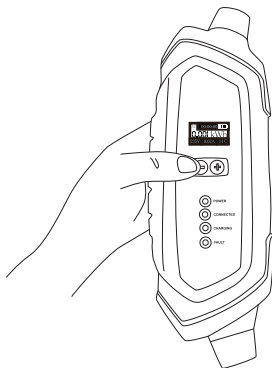
⑩ - Unit Overheating Protection

1. Inspect the charger module for overheating.
 - a. Carefully unplug the charger module from the wall outlet and allow to cool.
 - b. If the situation still occurs, please contact customer service for assistance.
2. Have a qualified electrician inspect the wall outlet.

⑪ - Power On Self Error

If the self-check time is too long, please restore factory settings or replug the power outlet.

Charge Operation



In the non-charging state, long-press the "+" key or "-" key for more than 3 seconds to enter the rated current adjustment. At this time, the rated current on the LED screen is selected, and then short press the up key or down key to adjust, the rated current can be selected: 10A/13A/16A/32A. At last, long-press the "+" key or "-" key for more than 3 seconds, it will exit settings, the charger starts to charge.

Tips: The factory default setting is 32A mode. We recommend that you keep 32A mode in order to achieve the most ideal charging speed.

| Rated Current | Overload Protection current | Charging Speed |
|---------------|-----------------------------|-------------------|
| 10A Mode | 13A | Up to 2.2KW/h Max |
| 13A Mode | 16A | Up to 2.9KW/h Max |
| 16A Mode | 20A | Up to 3.6KW/h Max |
| 32A Mode | 40A | Up to 7.2KW/h Max |

Protection Feature



Leakage Protection:

The effective value of leakage current exceeds 22mA, and the power supply will be cut off within 100ms without self-recovery. Manually plug and unplug the three-pin plug of the power supply to restart.



Overload Protection:

When the effective value of the current exceeds the overload protection current for 10 seconds, the overload protection will be carried out, and the recovery will be carried out in 5 minutes. The number of self-recovery times is 3 times. The power supply will not be restored after the 4th overload protection. You need to manually plug and unplug the power three-pin plug to restart.



Short Circuit Protection:

When the voltage exceeds 275V, it will be protected and return difference 10V, and will recover automatically after the grid voltage is stable for 5s.



Under-Voltage Protection:

When the voltage is below 85V, it will be protected and return difference 10V, and will recover automatically after the grid voltage is stable for 5s.



Overheat Protection:

When the temperature of the power plug or the internal temperature of the control box exceeds 185°F, it will enter the over-temperature protection, and it will recover when the temperature of the power plug and the internal temperature of the control box are lower than 149°F.



Over current Protection:

When the effective value of the current exceeds 2 times the rated current, the control box will be judged as a short circuit and will be protected within 500ms. It is necessary to manually plug and unplug the three-pin plug of the power supply to restart.



Lightning Protection:

Under thunderstorm weather, it can carry a $\pm 2000V$ surge voltage to prevent high voltage from damaging internal components. (Comply with IEC62752 standard)

Frequently Asked Questions

Q1: Why cannot reach the maximum output power of 7.2 kW during actual use?

A: 1. First check the maximum charging power your electric car supports, some models do not support 7.2 kW max input.

2. Manually press the “+” button on the charging box to adjust the rated current to the highest 32A Mode.

3. Make sure to use the NEMA 14-50 plug we provided, and do not modify or DIY privately without guidance from a licensed electrician.

4. There are many factors that affect the actual current. When the battery is in turn from the NEMA socket- wire- car inverter- battery.

Q2: Why did the charging speed become slow when the car is charged to about 80%?

A: This is because of the charging characteristics of lithium batteries. When the energy of the battery reaches 80%, it will enter the tiny current charge state, and the current entering the battery will be limited which will protect the battery and extend its service life.

Q3: Will this product work for my EV?

A: As long as the charging port of your electric/hybrid vehicle is J1772, this level 2 charger will work for your car. If you can't confirm, please contact us and we will tell you the answer.

Q4: If the EV charger fails to charge or the indicator or display is abnormal, what after-sales service can I enjoy?

A: Please send some pictures and videos to our official email. If there are quality problems with our charger, we will provide free maintenance service for you. All shipping and maintenance fees will be paid by BougeRV. Our technical team will repair the charger in three days.

Q5: Does the charger have the function of delayed charging or scheduled time charging?

A: No, this charger does not have the above functions.

Q6: Is the charger waterproof? Can I use it outdoor?

A: Yes, it can be used outdoor. The waterproof rating of the charging box is IP67 and the charging plug is IPX3. But for safety and extending the life of the charger, we do not recommend using the charger outdoor under severe weather conditions.

BougeRV



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Need help? Email us via : service@bougerv.com