



PRODUCT AND INSTALLATION MANUAL

Blink EV 250





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Disclaimer of Consequential Damages

Blink is not responsible for the use or application by any person of the materials in this manual. Blink is not responsible for damages, either direct or consequential, arising out of or relating to the use or application of these materials.

Certain sections of this manual are meant as a guide for professional electricians. The manual contains general guidelines and may not provide instructions for your specific situation. Do not attempt installation if you lack the knowledge and understanding required for the installation, otherwise personal injury and/or death as well as property damage or loss could occur.

Electricity is dangerous and can cause personal injury or death as well as other property loss or damage if not used or constructed properly. If you have any doubts whatsoever about performing the installation of the equipment, please do the smart thing and hire a licensed electrician to perform the work for you. Never work with live voltage. Always disconnect the power source before working with electrical circuits. When performing the installation, please read and follow this manual. Additionally, always follow your local electrical code and requirements which are specific to local areas.

Notice

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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Blink
2404 W. 14th St.
Tempe, AZ 85281
(888) 998 2546
www.BlinkCharging.com

Important Safety Instructions

Before installing or using the Blink Network, LLC (Blink) electric vehicle supply equipment (EVSE), read all these instructions, paying particular attention to any WARNING and CAUTION markings in this document and on the Blink Product. You should also review any instructions included with your electric vehicle (EV) as they pertain to vehicle charging. The following symbols and associated instructions are used throughout this document and relate to action necessary to avoid hazards.

⚠ WARNING OF PERSONAL INJURY
⚠ WARNING RISK OF ELECTRIC SHOCK
⚠ WARNING RISK OF FIRE

⚠ CAUTION RISK OF DAMAGE TO THE EQUIPMENT

- This product should be installed only by a qualified approved technician.
- Blink is not responsible for physical injury, damage to property or equipment caused by the installation of this device.
- Make sure that the materials used, and the installation procedures, follow local building codes and safety standards.
- The information provided in this manual in no way exempts the user of responsibility to follow all applicable codes or safety standards.
- Review this manual carefully and consult with a licensed contractor, licensed electrician, or trained installation expert to make sure of compliance with local building codes and safety standards.

Repair and Maintenance Clause

- Only a licensed contractor, licensed electrician, or trained installation expert is allowed to repair or maintain this device. It is forbidden for a general user to repair or maintain this device.
- Any repair or maintenance MUST be performed after removing power from this device.
- Moving and Storage Instructions
- Store the product at a temperature between -40 and +80 °C.
- Check the product for damage after moving.
- Carry the product by the sides. Do not lift or carry by either the flexible cord or the EV cable, if provided. FCC Rules and Industry Canada License-Exempt RSS Standard(s)
- This device complies with Part 15 of the FCC Rules. Changes or modifications are not expressly approved by the manufacturer could void the user's authority to operate the equipment.

English: This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

(1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

French: Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

⚠️ WARNING RISK OF ELECTRIC SHOCK

Basic precautions should always be followed when using electrical products, including the following:

- Read all the instructions before using this product.
- This device should be supervised when used around children.
- Do not put fingers into the EV connector.
- Do not use this product if the flexible power cord or EV cable is frayed, has broken insulation, or any other signs of damage.
- Do not use this product if the enclosure or the EV connector is broken, cracked, open, or shows any other indication of damage.

⚠️ WARNING RISK OF ELECTRIC SHOCK

Improper connection of the equipment grounding conductor can result in a risk of electric shock. Check with a qualified electrician or serviceman if you are in doubt as to whether the product is properly grounded.

⚠️ WARNING RISK OF ELECTRIC SHOCK

- Do not touch live electrical parts.
- Incorrect connections may cause electric shock.

⚠️ WARNING

This equipment is intended only for charging vehicles that do not require ventilation during charging. Please refer to your vehicle's owner's manual to determine ventilation requirements.

⚠️ WARNING

Do not use extender cables to increase the length of the charging cable. The maximum length is limited to 25 feet by the National Fire Protection Agency.

⚠️ WARNING RISK OF ELECTRIC SHOCK

To reduce the risk of fire, connect only to a circuit provided with Model HQW2-50C-W1-N1-N-23, HQW2-50CN1-N1-N-23, HQW2-50C-W1-N2-N-23-D for 50 A; Model MQW2-50C-M2-R1-N-23, HQW2-50C-W1-N1-N-23, HQW2-50C-N1-N1-N-23, MQW2-50C-M2-R2-N-23-D, HQW2-50C-W1-N2-N-23-D for 62.5 A amperes maximum branch circuit overcurrent protection in accordance with the National Electrical Code, ANSI/NFPA 70 and the Canadian Electrical Code, Part I, C22.1.

General Conventions

The use of the word "Note:" indicates additional information that is relevant to the current process or procedure.

SAVE THESE INSTRUCTIONS

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Important Safety Information

This manual contains important guidelines for the installation, operation, and maintenance of the Smart EV Charger by Blink Charging Inc. Therefore, we urge you to keep this user manual and review all warnings and cautions.



Electrical Hazard: Disconnect the circuit breaker until all installations are completed.

- Electrical Hazard: Check the surrounding environment of the installation site. Do not install near flammable, combustible, explosive materials, chemicals, or steam.

Warning and Cautions

- This user manual contains important instructions for the installation, operation, and maintenance of Blink Charging Inc.'s Smart EV Charger. Therefore, we strongly recommend that you keep this user manual for future reference related to the installation, operation, and maintenance of the charger.
- Before installing and using the product, please read this user manual and follow the instructions provided.
- The installation of the charger should only be carried out by qualified and certified technicians who have received training in electrical system operations.
- The charger must be grounded through permanent wiring according to national and local electrical safety regulations. Improper grounding installation may cause electric shock. Verify the grounding status through a qualified technician.
- Do not disassemble or modify the charger, as there is a risk of electric shock or fire. Users are not allowed to inspect or repair the charger. Contact the manufacturer if repair or modification is needed.
- Do not use the charger if the connector or vehicle inlet is defective, cracked, worn, damaged, or inoperable.
- Do not pour water or other liquids on the charger. Do not immerse or drop the charger connector into water or other liquids. Store the charging cable on the holder to avoid unnecessary contamination or exposure to moisture, and do not use it in a damp state.

- Be careful not to let any object with electricity or a sharp object touch the terminals (metal parts) of the charger connector.
- Prohibited usage: Do not use in the following cases:
 - When there is moisture on the charger connector and the vehicle inlet
 - When the charger power is off (user forced to charge prohibited)
- Always use the designated electric vehicle-only battery according to the specifications of the slow charger and do not use it for other purposes.
- Be careful to prevent collisions between the charger and the vehicle during movement, and if the charger is impacted, immediately stop operation and contact the manufacturer.
- Do not use the charger in locations where the temperature is higher or lower than the usage temperature specified in the charger specifications, and if unavoidable, install appropriate supplementary devices such as heaters or cooling devices.
- Do not disassemble or subject the charger to impacts, and do not operate the vehicle while it is charging.
- Do not disassemble or assemble the charger unless it is done by a certified inspection technician.
- Do not damage the product, and if damage occurs, do not use it and replace everything with new ones before use.
- There may be a risk of electric shock, so do not touch any part that is not insulated.
- If the vehicle's inlet or charger connector is wet, do not use it as there is a risk of electric shock. Before disassembling or assembling the charger, turn off all power to prevent electric shock and death.
- Perform appropriate grounding work according to national and regional electrical safety regulations.
- The charger connector must be firmly plugged in and aligned with the inlet when disconnecting. Use both hands to align and disconnect with caution.
- If children are present during charging, they should be supervised and cautions should be taken.
- The electric vehicle and the charger must be disconnected before inspection. Even if the charger's power is turned off, there may still be a risk of electric shock at the connection

point with the electric vehicle.

- Make sure that no liquids or foreign substances enter the charger.
- Do not place flammable materials near the charger.
- Users must follow the national electrical safety regulations and standards in the jurisdiction where the charger is installed.
- Do not disconnect the connector during charging as it may cause damage to the connector or charger.
- Do not operate the charger when it is in an abnormal state.
- If you discover any fatal impact or other damage, do not operate the charger and contact the service manager or the charger manufacturer.
- Dusty environments require frequent maintenance and management.
- Even if the electricity entering the charger is blocked, do not disassemble or inspect the charger within 5 minutes after blocking.
- When inspecting and maintaining the charger, be sure to turn off the charger's power.
- Do not forcefully disconnect the plug and socket while charging. If you wish to end the charging, press the cancel button and then disconnect the plug and socket.
- Do not perform vehicle maintenance such as washing or repair during charging. We recommend avoiding charging during peak hours, which are 13:00-17:00 in the summer and 11:00-12:00 and 18:00-19:00 in the winter, in consideration of the stability of power demand.
- This charging station is designed for electric vehicle charging only. Do not use it for other purposes. We will not compensate or take responsibility for accidents caused by non-authorized use. In addition, if assembly or disassembly is required, please make sure to hire a certified electrician who can work in accordance with electrical safety regulations.

Product Inspection Upon Receipt

After receiving the product, unpack it and check for any damage that may have occurred during shipping. If any damage caused by shipping is found, record it with a video or photo and contact the shipping company.



To ensure that the charger is received correctly, compare the packing list of the product you received with the purchase order. If there are any discrepancies, please contact us within 1 month of purchase.

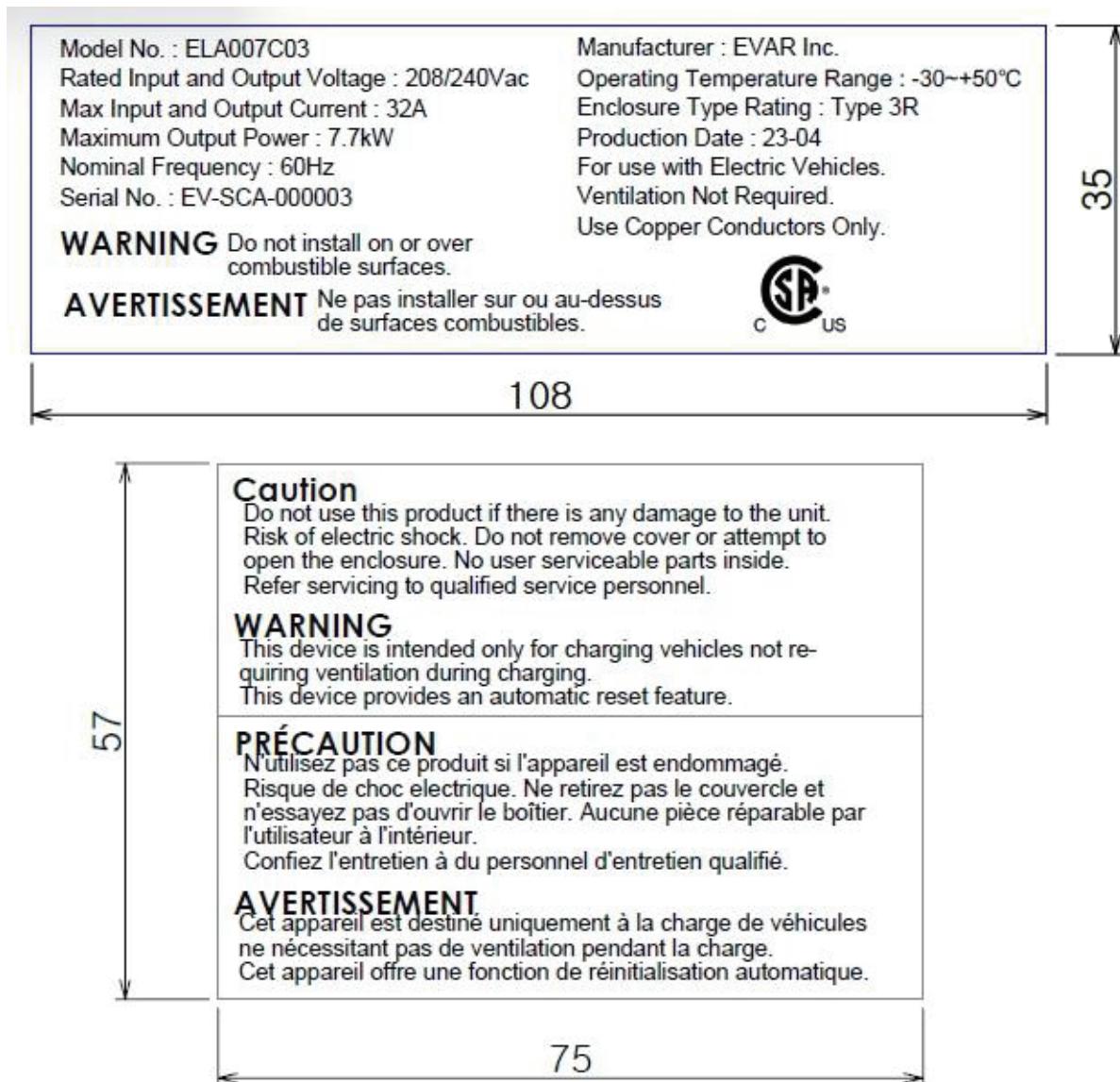
Storage Environment and Method

When storing the product, be sure to store it in a clean and dry environment with a temperature range of -40°F to 149°F (-40°C to 65°C). When loading the product for transportation, it must be stored and transported in an upright box to protect it from scratches.

Product Specifications

Model Number	ELA007C03
Operating Condition	Indoor/Outdoors
Charging Status	Mode 3 (IEC 61851-1)
AC Inlet Voltage	208~240 VAC 1 Phase/32A/50Hz/60Hz
AC Outlet Current	6A ~ 32A (according to dynamic load balancing)
Indication	E-ink Display / RGB LED
Connectors	SAE J1772 (IEC 62196 Type 1) 2M / 7.4 M Type 2 GB/T
Functional Safties	<ul style="list-style-type: none">- Over current protection- Ground continuity check- Relay fault detection- Control by internal temperature of Charger
Leakage Current Protection	Integrated, no additional required (CCID20)
Radio Frequency	Wi-fi: 2.4 GHz, 802.11b/g/n / Smart EV Charger User Manual 5 NFC: 13.5598 MHz / Bluetooth LE: 2.4 GHz /
IP Protection	IP 55
Size of Charger	306 mm x 395 mm x 116 m (W x H X D)
Operating Temp.	-30°C~50°C (-22°F~122°F)
Storage Temp.	-40°C~65°C (-40°F~149°F)

Labels



Contains

1	Smart Charger
2	Cable Rest
3	Charging Cable
4	Key
5	Screw Anchor & Anchor Bolt
6	Insulated Ring Terminal (M6)
7	Guidebook for Installation
8	Guide Paper



Name of Section

- ① Smart Charger
- ② Cable Rest
- ③ Charging Cable

Parts

KEY



X 1ea

Screw Anchor
(6x50)



X 7ea

Anchor Bolt
(M4x40)



X 7ea

Insulated Ring
Terminal (M6)



X 3ea

Guide Paper



X 1ea

※ Be sure to use the parts provided when assembling.

Installation Instructions and Operations

Required Tools

1	Hand Drill
2	Wire Stripper
3	Ruler

Installation instructions

1. When installing the charger or connecting the power input line, be sure to turn off the power and ensure that the product's IP rating is maintained.
2. Install the charger in a location where the charging connector can easily reach the vehicle inlet.
3. The charger requires wireless internet communication. Obstacles such as drywall, plastic, wood, metal, mirrors, brick, concrete, etc. can interfere with wireless signal transmission. Check the radio reception status at the installation location. If a mobile device can connect to mobile communication services (3G, LTE, etc.) or Wi-Fi at the location, the charger can also be connected.
4. When wiring the power input line to the charger, check the voltage wire (L), neutral wire (N), and ground wire (G), and confirm that the voltage between the voltage wire and neutral wire is single- phase power (220 VAC). A common mistake is wiring three-phase power (380 VAC). In this case, the charger's fuse may be damaged.

Install Guide

※ Please make sure **the circuit breaker of the AC power is off** before starting.

Guide Paper

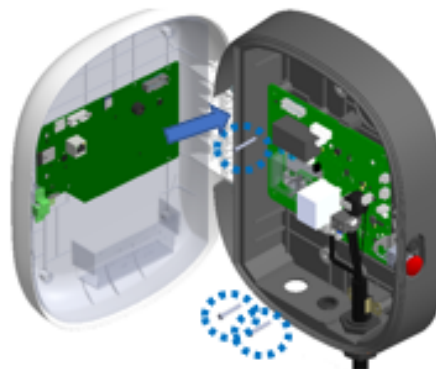


Screw Anchor & Anchor Bolt



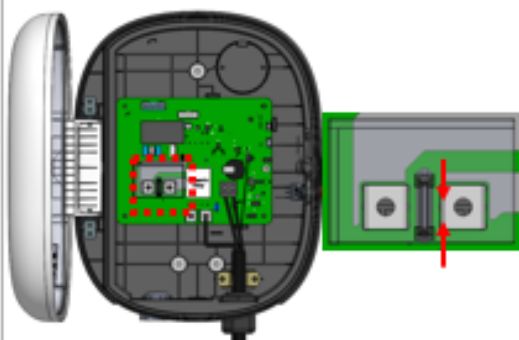
- 1 Keep the guide paper attached to the wall and assemble the screw anchor through the wall with a 0.24in drill.

(Recommend: Position the bottom end of the guide paper above 55.1in from the floor.)



- 2 After opening the Charger, use the accompanying anchor bolt to secure it to the wall through a white rubber cap. (The white rubber cap is easily perforated with the screw.)

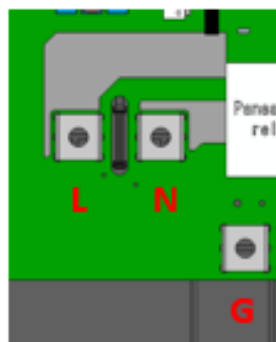
※ **Do not remove the white rubber cap.** The cap stands still through the whole step.



- 3 Remove the plastic terminal base cover.

(When the hooks are gathered inwards, the terminal base cover will be removed.)

※ Be careful not to break the hook.



- 4 Please connect the power line with the enclosed Insulated Ring Terminal (M6) after checking the L/N/G with adequate torque level. (1.84lbf.ft)

Assemble the removed terminal base cover.

※ Before connecting the power source to Insulated Ring Terminal, **make sure to insulate it to prevent short circuits.**

※ Please make sure **the circuit breaker of the AC power is off** before starting.



- 5** Insert the enclosed KEY in the center of the right side of the Charger and turn it CCW to lock.

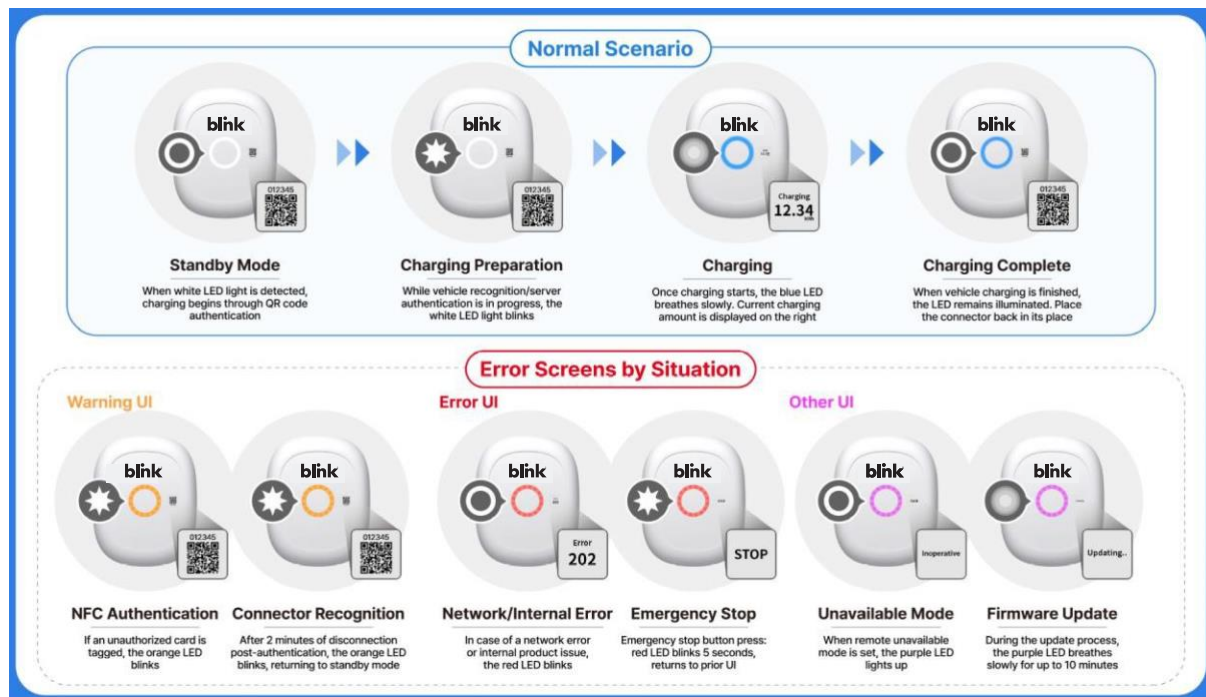
※ When you lock the Charger, please make sure that **it is locked properly**.



**Screw Anchor
& Anchor Bolt**

- 6** After installation of the cable rest, please set up the wires and **Charging Cable** ready to use.

Status and Indication of LEDs



Warranty

Blink Charging guarantees charging equipment for 3 years from the manufacturing date against product malfunctions caused by material or manufacturing defects, or technical flaws, subject to normal use.

If a product malfunction occurs within the 3-year warranty period, we will replace it at no charge.

However, the customer must notify the malfunction within 1 month of discovering it by contacting Blink's customer center via phone or email.

We will confirm the issue and replace the product free of charge if the defect is confirmed. If the product malfunction is due to the user's negligence, we will repair it at the actual cost of the customer.

In this case, the customer must notify Blink's customer center of the malfunction within 1 month of its occurrence or discovery and send the product to Blink's headquarters at the sender's expense.