



INSTALLATION MANUAL

Series 3



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SAFETY AND COMPLIANCE

This document provides instructions to install the Blink Charging Station and should not be used for any other products. This product must be installed in accordance with the National Electrical Code (NEC), the Canadian Electrical Code (CEC) or any applicable local code.





Review this manual and consult a licensed contractor and/or electrician before installation to ensure compliance with local building practices, climate conditions, safety standards, and state and local codes.

The Blink Charging Station should be installed by a licensed contractor/ electrician and inspected by a qualified installer prior to initial use. Under no circumstances will compliance with the information in this manual relieve the user of responsibility to comply with all applicable codes and safety standards.

This document describes the most common installation and mounting methods. Contact Blink Charging where it is not possible to perform an installation using the procedures provided in this document.

Blink Charging is not responsible for damage that may occur or result from installations that are not described in this document. This document is not offered as a formal design document. All designs for the installation of this product are the sole responsibility of the appropriately licensed and/or certified installing contractor.

The following signs are used throughout the installation manual following ANSI Z535 Standard:

Sign	Intended Use
	Situation will result in serious injury or death
	Situation could result in serious injury or death
	Situation could result moderate or minor injury
	Situations that at worst will result in property damage and will not result in physical injuries

DANGER

NOTE: MAKE SURE TO TURN OFF ALL BREAKERS BEFORE DOING ANY ELECTRICAL WORK!

General

The Blink Station is grounded through a dedicated conductor to the ground connection at the power distribution panel. This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

⚠ CAUTION

The equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Statements

Reasonable effort has been made to ensure that the specifications and other information in this manual are accurate and complete at the time of publication. However, specifications and other information in this manual are subject to change at any time without prior notice.

NOTICE

Use of the Blink Charging Station in a manner not intended or any modification not approved by the manufacturer will void the limited warranty. Other than the limited product warranty provided by Blink, this manual and the Blink Charging products are provided "AS IS," and Blink expressly disclaim all implied warranties, including any warranty of design, merchantability, and fitness for a particular purposes and non-infringement, to the maximum extent permitted by law.

NOTICE

IN NO EVENT SHALL BLINK CHARGING, OR ITS AUTHORIZED DISTRIBUTORS BE LIABLE FOR ANY INDIRECT, INCIDENTAL, SPECIAL, PUNITIVE, OR CONSEQUENTIAL DAMAGES, INCLUDING WITHOUT LIMITATION, LOST PROFITS, LOST DATA, LOSS OF USE, COST OF COVER, OR LOSS OR DAMAGE TO THE BLINK CHARGING STATION ARISING OUT OF OR RELATING TO THE USE OR INABILITY TO USE THIS MANUAL, OR RELATED PRODUCT, EVEN IF BLINK CHARGING OR ITS AUTHORIZED DISTRIBUTORS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

NOTICE

Before installing or using the Series-3 electric vehicle supply equipment [EVSE], read and understand all the instructions of this manual and be familiar with the relevant safety symbols and then start to install or debug the Product. The Charging station must be installed according to the National and Local grid safety standards/law.

NOTICE

According to the National and State requirements, before connecting the product to the grid,

you must get permission from the Power department, Building management or any other relevant party.

NOTICE

Only the licensed contractor, licensed electrician, or trained installation expert is allowed to perform the installation, trouble shooting, servicing, or replacing any electrical wiring and connected electrical parts.

⚠ DANGER

Disconnect electrical power prior to installing the S3 EVSE. Failure to do may cause physical injury or damage to the electrical system and the product.

Any repair or maintenance must be performed after removing power from the device.

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SYSTEM REQUIREMENTS

General Requirements

⚠ WARNING

Blink EV charging stations require a solidly grounded electrical system with the presence of a main bonding jumper or system bonding jumper. Ungrounded sources or impedance grounded sources of any type (resistor/reactor) are not suitable for Blink EV charging stations.

Blink EV charging stations S3 requires the following specifications for the AC Input: 3 Phase - 5 Wire (220 – 240 V) Phase to Ground: 220 - 240 V, Phase to Phase: 400 – 440V input with an equipment grounding conductor. A grounded conductor (neutral conductor) is not required. All breakers must be non-GFCI breakers.

Anchoring detail is the responsibility of others. Anchoring must be capable of minimum weight and height in accordance with the provided table. Any seismic, wind-loading and/or snow-loading considerations increasing weights or wind-profile of unit will be the responsibility of others.

	WEIGHT (Kg)	DIMENSIONS (W x L x D) (INCHES)
SERIES 3 – CHARGING	5.5	9.5" x 14" x 5"

STATION IEC60309 SOCKET / 3 PIN SOCKET		
SERIES 3 - GATEWAY	7.5	14" x 16" x 7.2"

Wiring Diagram

⚠ WARNING

Each Blink EV charging station is listed and labeled through Nationally Recognized Testing Laboratory compliance testing at the maximum or 'full rated' output. Each station is capable of continuous full rated output up to its labeled rating or modified default output configurations in accordance with the following tables:

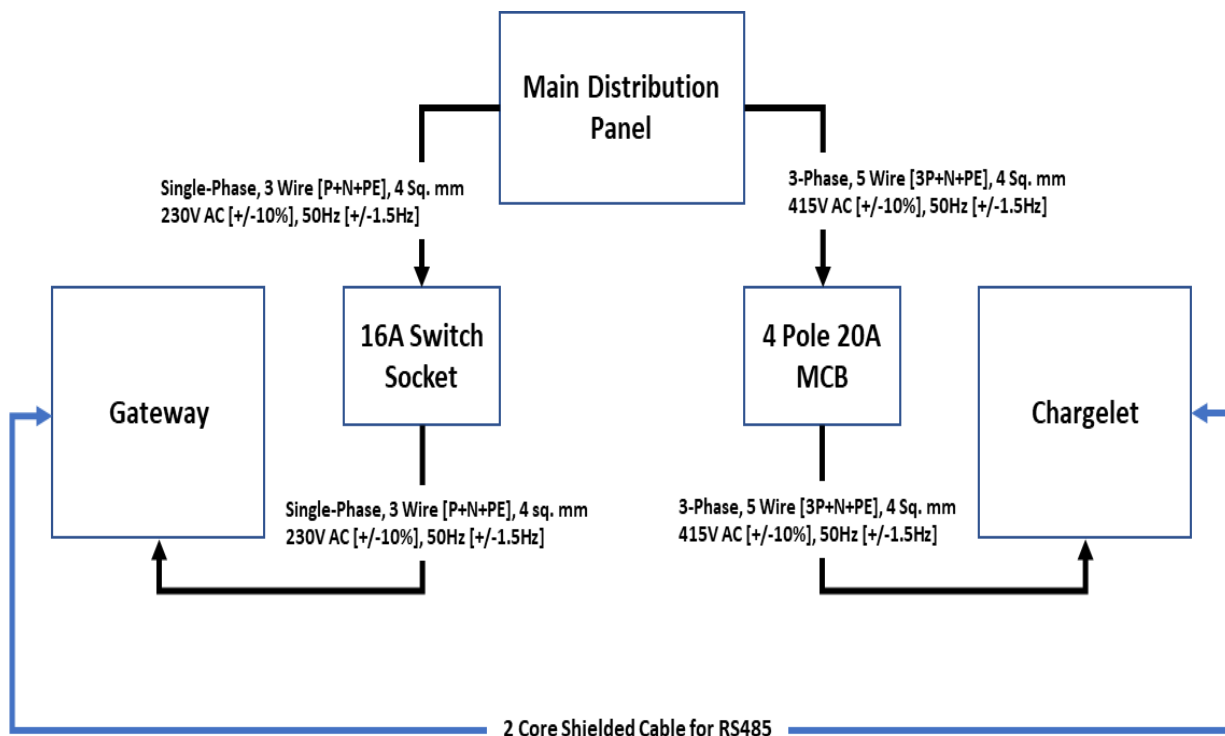


FIGURE 1 - WIRING LAYOUT

Station Connection Diagram – Gateway

⚠ CAUTION

After ensuring the installation is safe and secure:

1. Ensure the circuit breaker is turned off.
2. Connect the circuit breaker's output to the incoming supply of the Charging Station through the cable gland provided.

The Gateway comes with standard 3 pin AC plug for power.

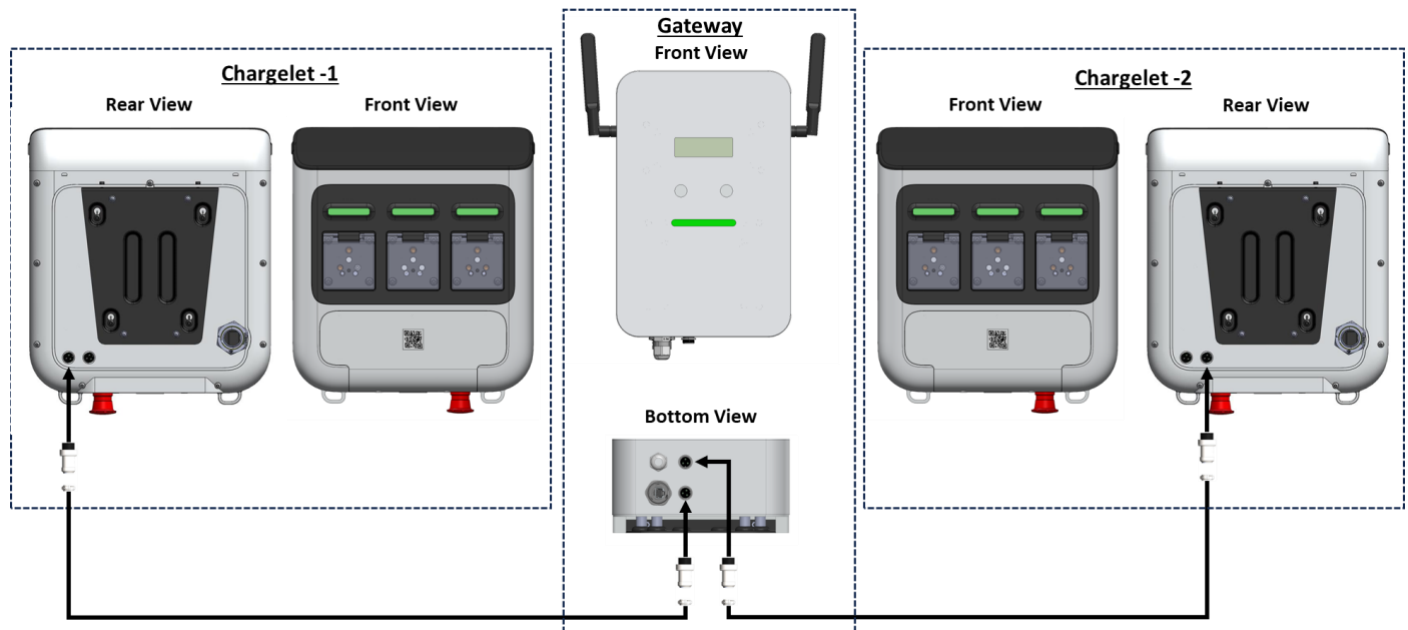


FIGURE 2 - GATEWAY & CHARGING STATION RS232 WIRING

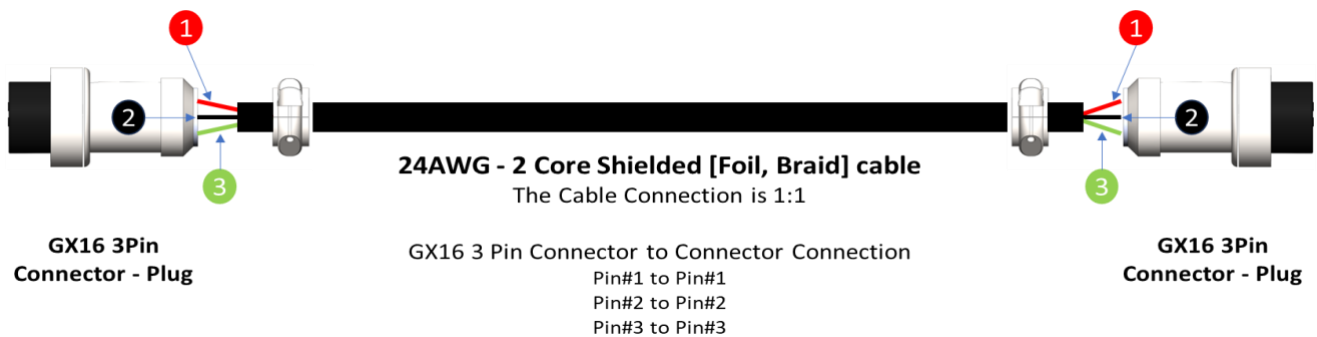


FIGURE 3 - RS232 CABLE CONNECTIONS

Station Connection Diagram – Charging Station

⚠ CAUTION

After ensuring the installation is safe and secure:

1. Ensure the circuit breaker is turned off.
2. Connect the circuit breaker's output to the incoming supply of the Charging Station through the cable gland provided.

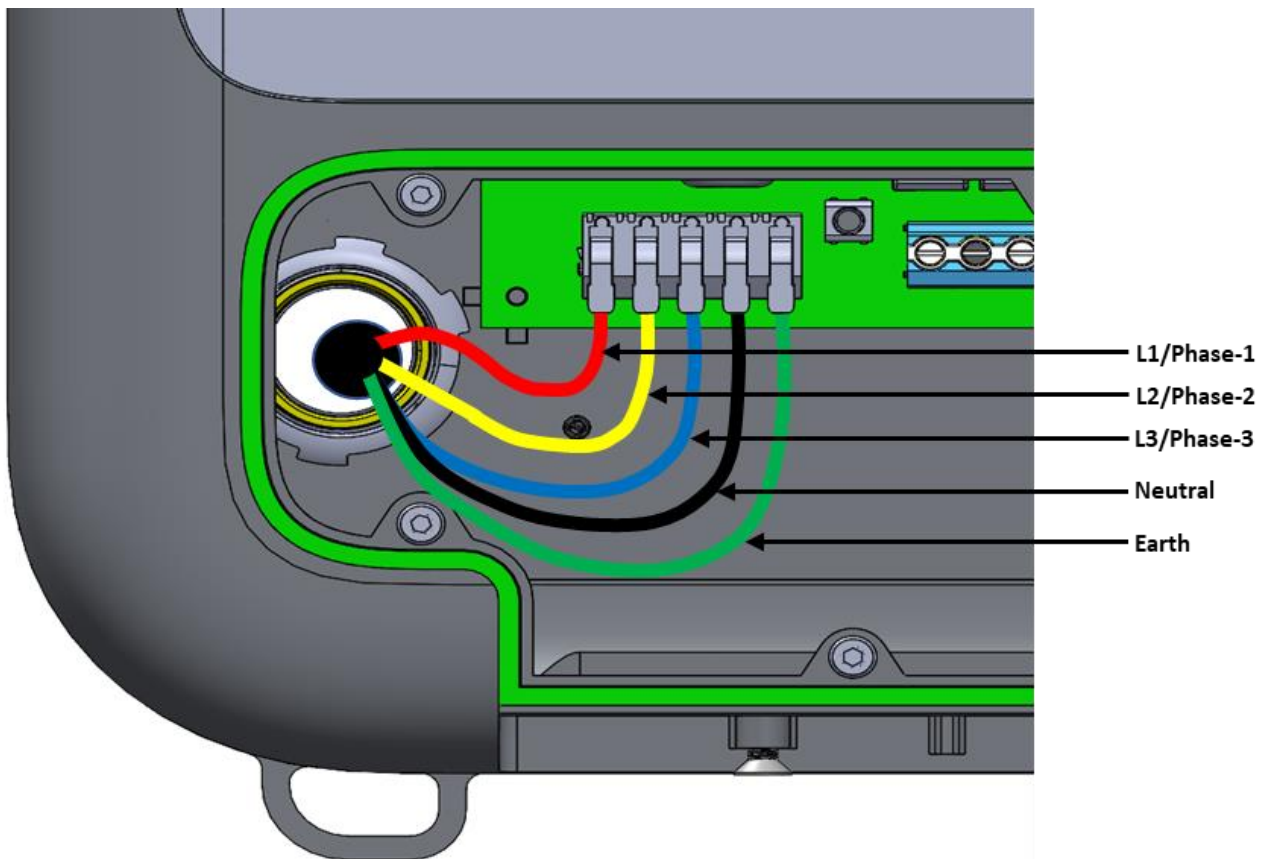


FIGURE 4 – CHARGING STATION AC WIRING

Communication Requirements

Blink EV charging stations require cellular connectivity to function properly. To enable cellular connectivity, please reference the following cellular carriers and minimum operational signal requirement at each Blink EV charging station location:

JIO	4G LTE	Band 3 Band 5 Band 40	RSRP: -95 dBm RSRQ: -13 dB
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Blink stations do not use 5G cellular or Wi-Fi communication protocols.

HARDWARE INVENTORY SPECIFICATION AND INSTALLATION

Charging Station Wall Mount

CSK Drywall screw Ø6x 35mm with Gripper

Qty – 4 numbers

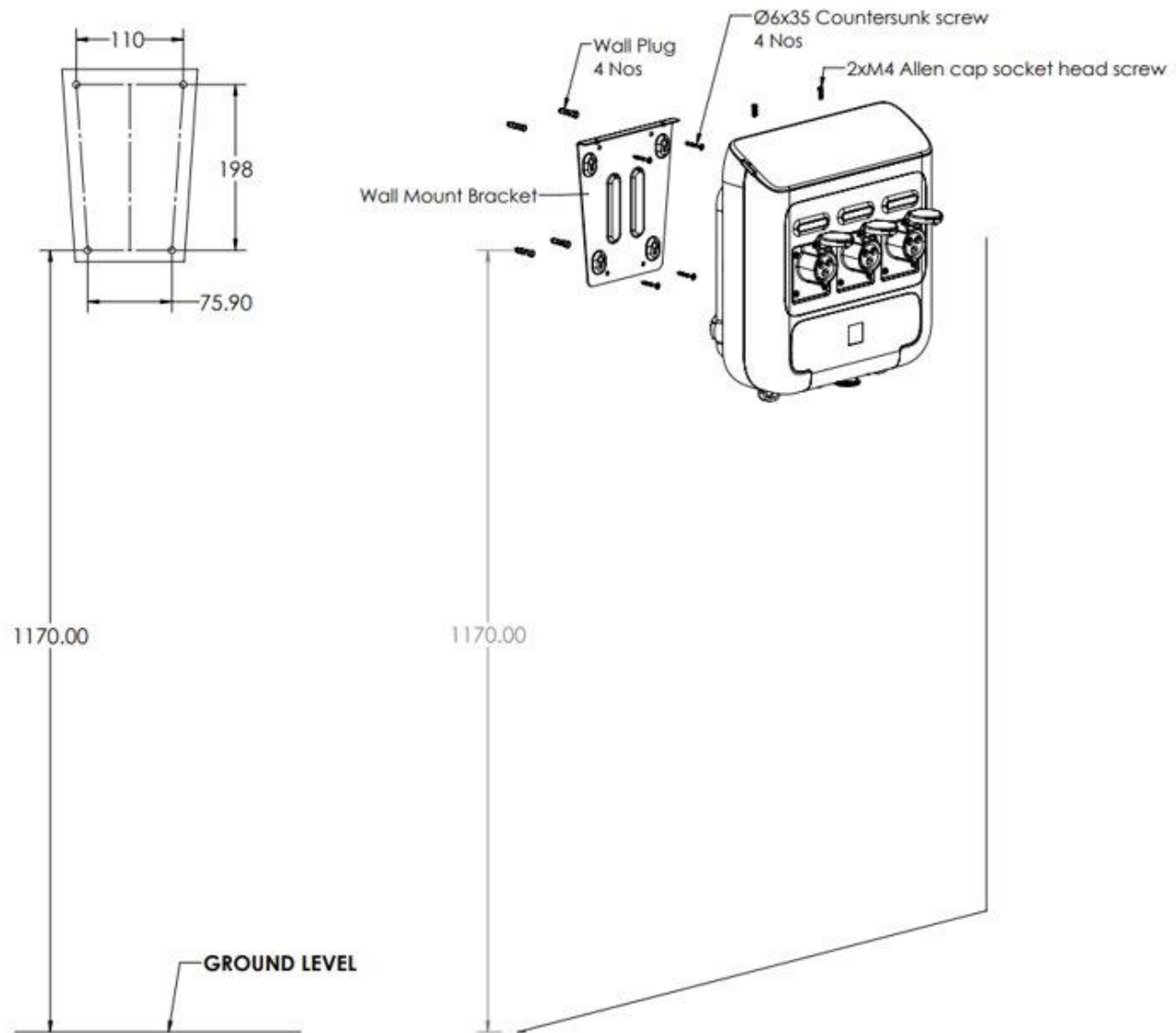


FIGURE 5 CHARGING STATION WALL MOUNT

Gateway Wall Mount

CSK Drywall screw Ø6x 35mm with Gripper

Qty – 4 numbers

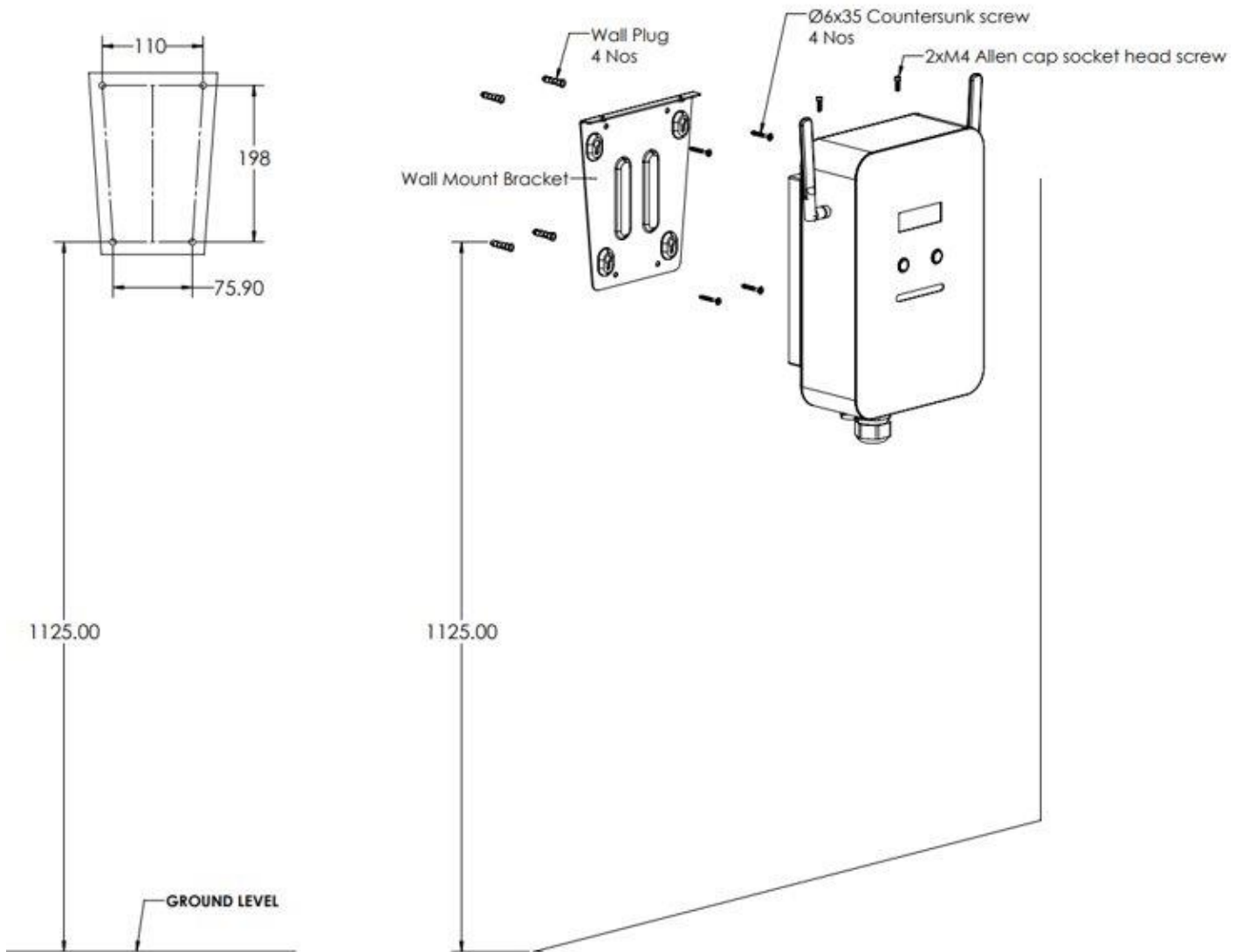


FIGURE 6 GATEWAY WALL MOUNT

Charging Station Dimension

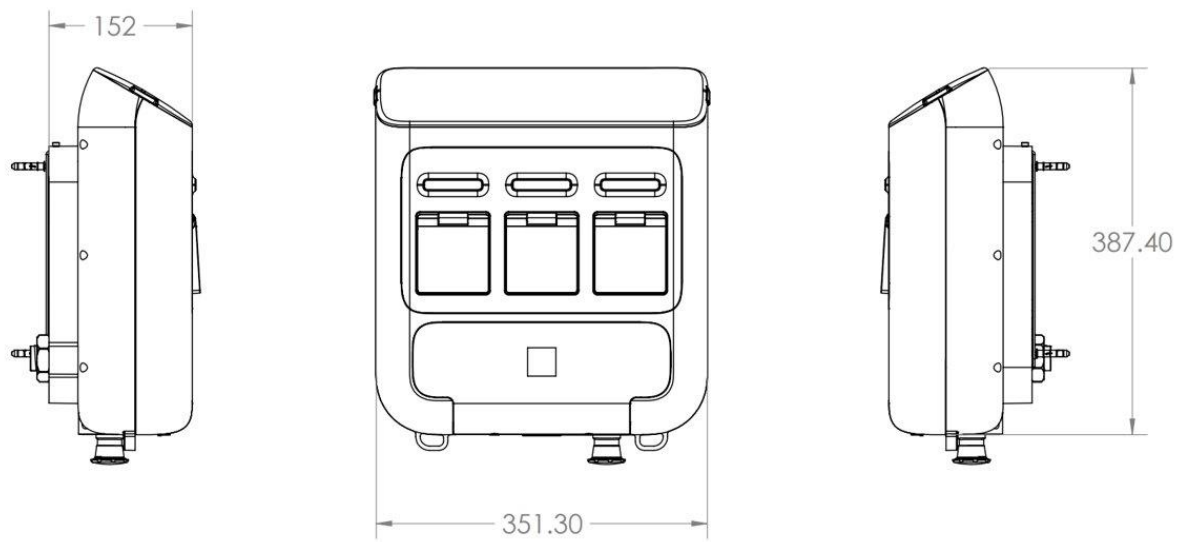


FIGURE 7 CHARGING STATION DIMENSIONS

Gateway Dimension

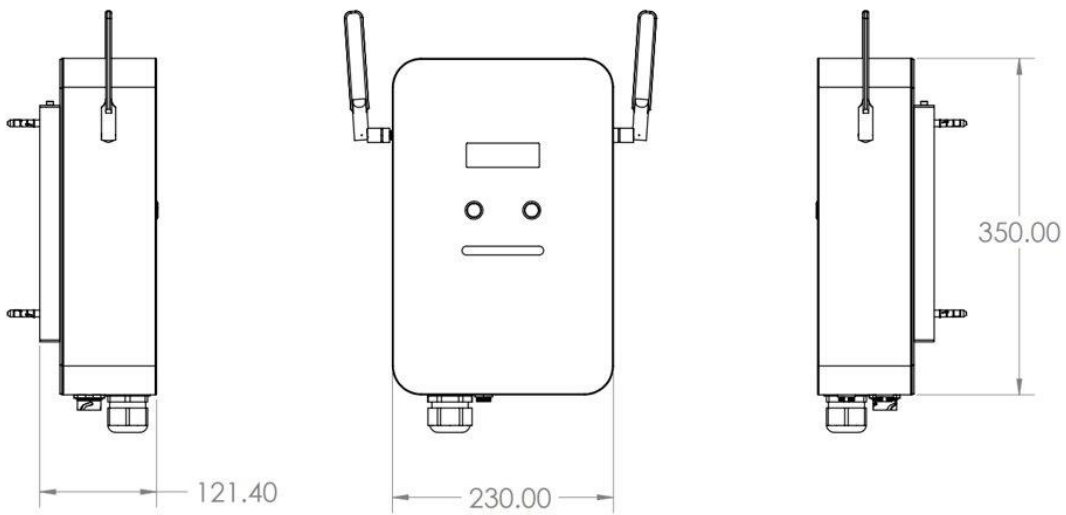


FIGURE 8 GATEWAY DIMENSIONS

DEVICE OPERATION

Status Icons

Icon	Description
	Port Number
	Port Connected
	Port Not Connected
	Port Charging
	Port Suspended
	Station online
	Station offline
	Battery Mode Operation
	Station Not Reachable Communication Error
	Error State With Error Code

Starting A Charging Session

1. Ensure the status LED of the Charging station is Constant “Green Color”.
2. Open the output socket flap and plug in the EV side Connector.

3. Scan the QR code from the mobile app to start Authorization.
4. The output LED turns to blink slow “Green Color” indicating User Authentication is in progress, Authorized.
5. Once charging starts, the charging station LED status turns to Blink slow “Blue color”.

Monitoring A Charging Session

The following real-time parameters of the Charging session can be viewed on the mobile” app:

1. Current Power
2. Time elapsed
3. Total energy
4. Amount

Terminating A Charging Session

1. Disconnect the EV side Connector from Charging station at any time to stop the charge session. If the vehicle is disconnected, the LED changes to “Green Color” within 10 seconds.
2. If the session must be ended before full charge, press Stop Session from the mobile app.

Emergency Stop

1. In case of an emergency or if you feel unsafe, charging can be stopped by pressing the emergency button on
2. the Charging Station. Pressing the emergency button turns off all outputs.
3. NOTE: Please release the Emergency Stop only if you are sure there are no hazards.

Troubleshooting

NOTICE

After installation, station registration, and load management and/or modified output configurations have been completed (if applicable) the Blink station is ready to be

energized. After energizing the station, both at-a-glance LED lights should illuminate GREEN. If both station at-a-glance LED lights do not illuminate GREEN, please refer to the following troubleshooting guidance:

Led Color & Effect	Scenario	Possible Issue	Recommended Solution
Constant Red on all Ports	LEDs are Constant Red	Any of the below Faults: <ol style="list-style-type: none"> 1. Emergency Stop button 2. Ground Fault 3. Ground Disconnected (GMI) 	<ol style="list-style-type: none"> 1. Look whether the Emergency button is pressed. 2. Look at the Charging station status in dashboard to identify the exact fault and get the electrical wiring checked by an electrician.
Constant Red on specific Port	Any of the Port LED is constant Red	Power Supply failure of that specific port.	<ol style="list-style-type: none"> 1. Verify the error code GF0100 is displayed in the display, then check the connectivity of power supply to the specific port. 2. Also check the L1, L2 & L3 power supply.
Red Blink	LEDs are blinking Red	The charge station is connected to the Gateway but not enrolled.	Enroll the Charge Station Mac Id with the Gateway.
Blink Purple	LEDs are Blinking Purple	Firmware Download is in progress.	Check the firmware download status in the LCD display and wait until the download is complete.
Constant Purple	LEDs are Constant Purple	The Charging Station is waiting for connection request from Gateway.	<ol style="list-style-type: none"> 1. Check the RS485 cable connectivity between the station and gateway. 2. Wait for 3 minutes, still the error continues turn off the power to the charging station, wait for 30 seconds and turn it back on.
Fast Blink Green	LEDs are Blinking Fast Green	The Station is authorized online, the car is not connected.	<ol style="list-style-type: none"> 1. Plug in the charger to the car to start the Charging Sessions. 2. If already plugged in, then there might be a port issue.

Slow Blink Green	Unable to start charging session	<ol style="list-style-type: none"> 1. The Station is not authorized, and the car is connected. 2. The charging station is not ready to enable charging due to a fault or no network connectivity. 	<ol style="list-style-type: none"> 1. Ensure Network connectivity by checking the status in the LCD display 2. Ensure the charging station is correctly configured, no faults are present
LED OFF	LEDs are OFF	<p>Any of the below reasons:</p> <ol style="list-style-type: none"> 1. Power Supply to Charging Station is turned off. 2. Faulty MCB 	<ol style="list-style-type: none"> 1. Check the power supply to the Charging Station. 2. If the power supply is ON, check for the MCB.
No LED Response	Charging station does not respond to requests	This could happen if the charging station is stuck in an undesirable state	Turn off the power to the charging station, wait for 30 seconds and turn it back on.

Please contact Blink Charging Customer Service at +91 8068971240 for any questions or issues not listed.

Housekeeping

⚠️ WARNING

Blink EV charging stations may be cleaned in accordance with the following guidance:

- Use clean, soft cloth along with mild detergent to wash the dirt off.
- Pour water gently from the top and use a wet/dry cloth to clean all the sides.
- Do not use excessive water pressure.
- Do not use strong detergents or any other chemicals (acids, petrol, thinner, or any other solvent)
- Avoid exerting excessive pressure on the device while cleaning.
- Do not open the device.
- Do not use a vacuum cleaner.

Mobile Application Screenshots

