

# Instruction Manual

Blink IQ 200



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Charge on.

**blink**

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## IMPORTANT SAFETY INSTRUCTIONS

Before using the **Car Charging Group Inc.** electric vehicle supply equipment (EVSE) Blink Charger, read all of these instructions, as well as the **WARNING** and **CAUTION** markings in this document, on the Blink Charger, and on your electric vehicle (EV).

Consult the following symbols and related instructions for the actions necessary to avoid hazards.

### Safety Instructions

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#### Legend



**WARNING:** Used when there is a risk of personal injury



**WARNING: RISK OF ELECTRIC SHOCK** – Used when there is a risk of electric shock



**WARNING: RISK OF FIRE** – Used when there is a risk of fire



**CAUTION:** Used when there is a risk of damage to the equipment

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- A device employing pressure terminal connectors for field wiring connections shall be provided with instructions specifying a range of values or a nominal value of tightening torque to be applied to the clamping screws of the terminal connectors.
- This product should be installed only by a qualified approved technician.
- 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.
- **Car Charging Group Inc.** is not responsible for physical injury, damage to property or equipment caused by the installation of this device.
- This document provides instructions for the Blink Charger and should not be used for any other product. Before installation or use of this product, 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 qualified approved electrician is allowed to repair or maintain this device. It is forbidden for general user to repair or maintain it.
- Any repairment or maintenance **MUST** be done after powering off this device.

FCC Rules and Industry Canada licence-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 licence-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."
- This equipment complies with FCC/IC RF exposure compliance requirements, the antenna used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons.



**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. Maximum length is limited to 25 feet by the National Fire Protection Agency.

## General Conventions

**Note:** Indicates additional information that is relevant to the current process or procedure.

## SAVE THESE INSTRUCTIONS

# 1 Introduction

This Instruction Manual describes how to properly install the Blink Model IQ-200 EVSE Charger, referred to as the “Blink Charger” throughout this document. Contact the Blink Support Center at 1-888-998-BLINK for troubleshooting and more detailed technical questions.

- Unauthorized modification to the Blink equipment voids the manufacturer’s warranty.

The Blink Level 2 EVSE Charger specified in this document is designed for the U.S. market to charge plug-in electric vehicles (PEVs) and battery electric vehicles (BEVs). It provides AC Level 2 charging that effectively shortens charging time for typical EVs, when compared to a Level 1 cordset EVSE unit.

## 1.1 Product View

Blink IQ 200 - Advanced

Model #:

IQW2-80U-M1-R2-N-25 (80A)

IQW2-32U-M1-R2-N-25 (32A)



**Figure 1-1. Advanced Front View**

Blink IQ 200 - Smart

Model #:

IQW2-80U-W1-N1-N-25



Figure 1-2. Smart Front View

Blink IQ 200 - Kiosk

Model #:

IQW2-00U-M1-R2-N-00



Figure 1-3. Kiosk Front View



# 2 Specifications

## 2.1 Product Specifications

**Table 2-1. Product Specifications.**

Item		Specification			
		Kiosk	Advanced (80A)	Smart	Advanced (32A)
Power Input	Input Rating	120/208/240 V~, single phase, 60 Hz.	208/240 V~, single phase, 60 Hz.		
		0.22 A maximum.	80 A maximum.		32 A maximum.
	Connections & Wiring	Uncorded, Hard-Wired, L1, L2, and GND.			
	Standby Power	< 10 W.	< 10 W.	< 5 W.	< 10 W.
Power Output	Output Rating	120/208/240 V~, single phase, 60 Hz.	208/240 V~, single phase, 60 Hz.		
		No output.	80 A maximum, 19.2 kW maximum.		32 A maximum, 7.68 kW maximum.
	Cold-Load Pickup	Randomized delay between 120 and 720 seconds before charge resume after a power failure.			
Protection	Internal Residual Current Detection	CCID 20, 20 mA CCID per UL 2231, Automatic and Manual Reset Feature.			
	Upstream Breaker	2-pole 100 A (max.) breaker on dedicated circuit, Non-GFCI type.			
	Plug-Out Protection	Power output is de-energized when a charging connector is disconnected from an EV.			
	Electrical Protection	Over Current, Short Circuit, Over Voltage, Under Voltage, Ground Fault, Surge Protection, Over Temperature.			
Communication	Local Area Network (LAN)	10/100 Base T Ethernet LAN.			
	Wireless Local Area Network (WLAN/WiFi)	802.11 b/g/n			
	Cellular	CDMA/UMTS Cellular.		None.	CDMA/UMTS Cellular.

Item		Specification			
		Kiosk	Advanced (80A)	Smart	Advanced (32A)
User Interface & Control	Charger Status Indicators - LDE Status Indicator	None.	LED Status Indicator: Steady Green = Power On/Ready To Charge. Flashing Green (Fast) = Vehicle Connected/Ready To Charge. Flashing Blue (Slow) = Charging. Flashing Red = Warning/Fault. Steady Green = Charging Complete.		
	Display	LCD w/Touch Panel.		None.	LCD w/Touch Panel.
	Card Reader	RFID/NFC/SCC Reader.		None.	RFID/NFC/SCC Reader.
	Audible Feedback	Speaker: Sound 1 = System Powered/Initialized Successfully. Sound 2 = Charging Connector Attached To EV. Sound 3 = Charging Connector Disconnected From EV. Sound 4 = Charge Session Complete. Sound 5 = Warning/Fault. Sound 6 = Card/Payment Device Successfully Read. Sound 7 = Card/Payment Device Authorized. Sound 8 = Card/Payment Device Not Authorized.		None.	w/Speaker. Please refer to left column for the description of different sounds.
Environmental	Operating / Storage Temperature	-22°F to 122°F (-30°C to 50°C). -40°F to 176°F (-40°C to 80°C).			
	Humidity	0 to 95% relative humidity, non-condensing.			
Mechanical	Charging Cable Length	None.	25 ft (7.62 m).		
	Ingress Protection	NEMA Type 3R (Rainproof).			
	Mounting Type	Pedestal Mount or Wall-Mount Unit.			
	Cooling	Convection, Natural cooling.			
	Dimension (W x H x D)	13.95 x 10.65 x 5.23 inch (354 x 271 x 133 mm).			
	Net Weight	8.8 lb (4 kg).	25.3 lb (11.5 kg).	24.2 lb (11 kg).	25.3 lb (11.5 kg).

Charge on.



Item		Specification			
		Kiosk	Advanced (80A)	Smart	Advanced (32A)
Regulation	Certificate	UL			
	Charging Interface	None.	SAE J1772 compliant charging plug.		
	Accessibility	Instruction Manual x 1. Quick Start Guide x 1. Limited Warranty x 1. Mounting Bracket x 1. Screws x 4. 12 AWG Ring Terminals x 2. 14 AWG Ring Terminals x 1.	Instruction Manual x 1. Quick Start Guide x 1. Limited Warranty x 1. Mounting Bracket x 1. Screws x 4. 2 AWG Ring Terminals x 2. 8 AWG Ring Terminals x 1. Vinyl End Cap (Black) x 1. Vinyl End Cap (Red) x 1. Vinyl End Cap (Green) x 1.		

# 3 Installation

## 3.1 Before Installation

### 3.1.1 Safety Check



**CAUTION:** DISCONNECT ELECTRICAL POWER PRIOR TO INSTALLING or REPAIR THE BLINK CHARGER. FAILURE TO DO SO MAY CAUSE PHYSICAL INJURY OR DAMAGE TO THE ELECTRICAL SYSTEM AND BLINK CHARGING UNIT.

The Blink Charger should be installed only by a licensed contractor, and/or a licensed electrician in accordance with all applicable state, local and national electrical codes and standards.

Before installing the Blink Charger, review this manual carefully and consult with a licensed contractor, licensed electrician and trained installation expert to ensure compliance with local building practices, climate conditions, safety standards, and state and local codes.

Use appropriate protection when connecting to the main power distribution cable. Use tools as outlined in the section "Tools Required for Installation".

### 3.1.2 Grounding Instructions

This product must be connected to a grounded, metal, permanent wiring system; or an equipment grounding conductor must be run with the circuit conductors and connected to the equipment grounding terminal or lead on the product.

## 3.2 Tools & Parts Required for Installation

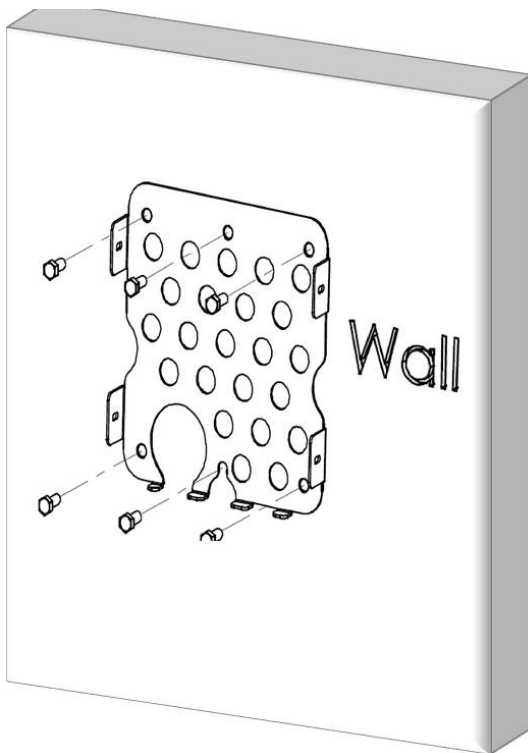
**Table 3-1. Tools & Parts Required for Installation.**

Tool	Size	Supplier
EVSE Mounting Bracket	N/A	Model Accessories
Torx Bolts (4each) - used to secure the EVSE to the mounting bracket	T20 (On the Model)	Model Accessories
Terminal tube	Color: Red, Black, Green	Model Accessories
Terminal		Model Accessories
Conduit – used for power wire	1"	Commercially available
Bolts (4 each) – used to secure the main body mounting bracket on the wall	M8x18 lag bolts with lock washers	Commercially available
Torx Driver	T20	Commercially available
Slotted Screwdriver		Commercially available
Philips Screwdriver	PH3	Commercially available
Bolts (for masonry)	M8, expansion	Commercially available
Torque Wrench		Commercially available
Wire, Copper	No. 8 AWG, 75°C or 90°C	Commercially available

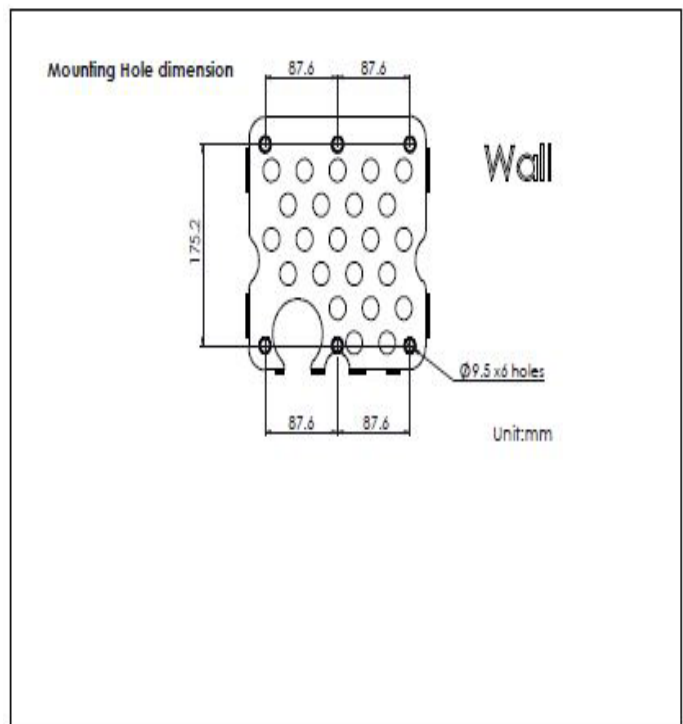
### 3.3 Install the Charger

1. Drill bolt holes in the wall for the mounting bracket.

**Note:** Follow applicable accessibility requirements for the mounting position. The unit shall be mounted at a sufficient height from ground such that the height of the storage means for the coupling device is located between 24 inches (600 mm) and 4 feet (1.2 m) from ground per NEC Article 625.



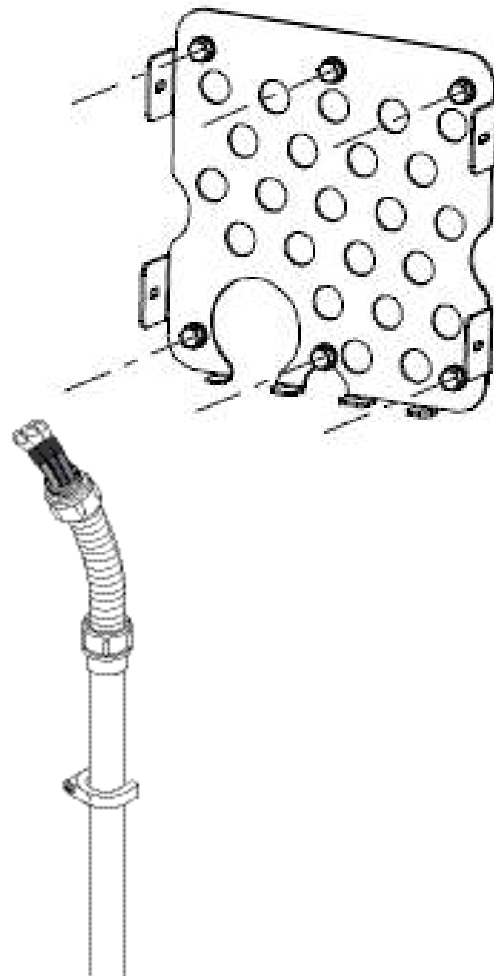
**Masonry Walls**



**Sheet Rock and Wood Stud Walls**

**Figure 3-1. Mounting Bracket**

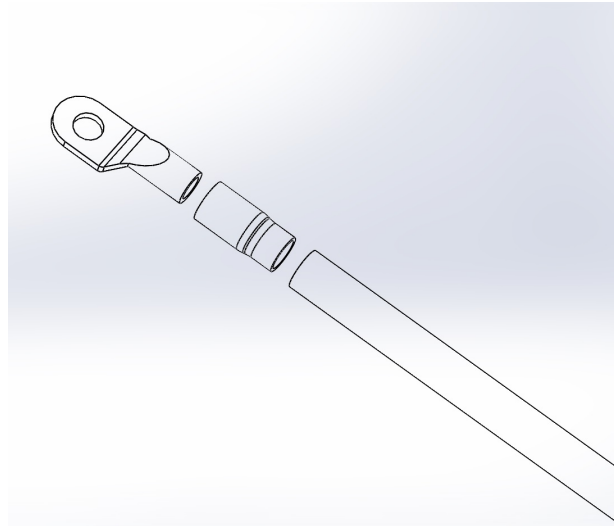
2. Secure the main body mounting bracket to the wall with appropriate bolts, as follows:
  - a. For masonry walls, use M8 expansion bolts.
  - b. For finished walls supported by wood studs, use M8x18mm lag bolts with lock washers.



**Figure 3-2. Prepare for Wiring.**

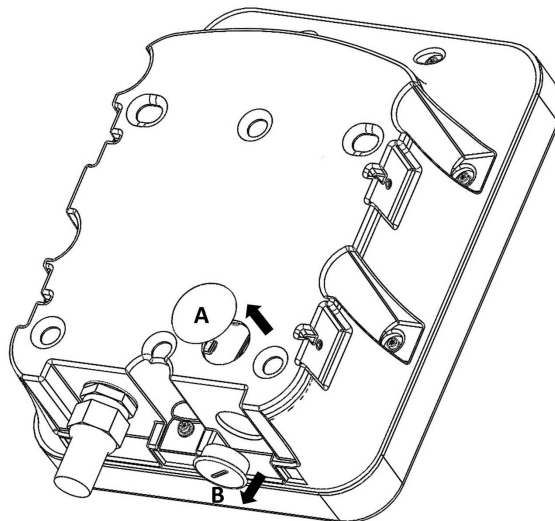
**3.** Connect the electrical wiring to the Blink Charger.

**3-1.** Choose the appropriate conduit in accordance with all applicable state, local and national electrical codes and standards.



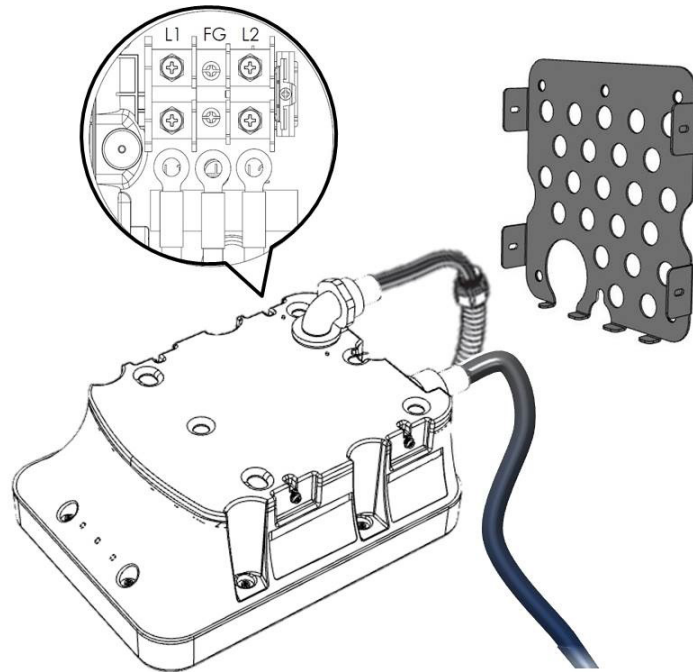
**Figure 3-3. Terminal tube.**

**3-2.** Clamp the Terminal, Terminal tube and Copper wire (Red is for L1, Black is for L2)



**Figure 3-4. Remove the cover.**

**3-3.** Remove the plug cover (A or B) and use slotted screwdriver (if required)



**Figure 3-5. Wiring**

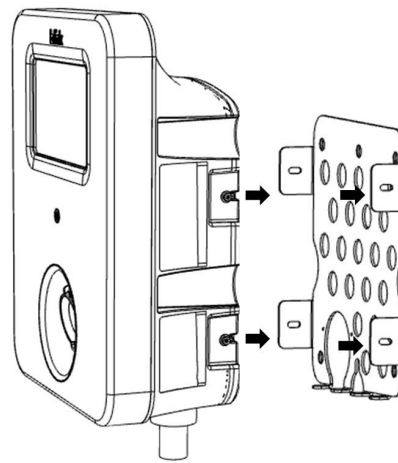
**3-4. Please** use following wire and torque force when connecting to input terminal block. using conductor type other than RHH, RHW and RHW-2 with outer covering.

Model	Terminal	Conductor	Screw	Rating	Torque - lb-in (N-m)
IQW2-80U-M1-R2-N-25 (Advanced) IQW2-80U-W1-N1-N-25 (Smart) IQW2-32U-M1-R2-N-25 (32A)	L1, L2	2 AWG	M8	90C, copper wire	97.4 (11)
	G	8 AWG	M6	60C, copper wire	70.8 (8)
IQW2-00U-M1-R2-N-00 (Kiosk)	L1, L2, G	14 AWG	M4	60C, copper wire	7.1 (0.8)

**CAUTION:** "To reduce the risk of the fire, connect only to a circuit provided with (@) amperes maximum branch circuit overcurrent protection in accordance with the National Electrical Code, ANSI/NFPA 70, and the Canadian Electrical Code, Part I, C22.2".

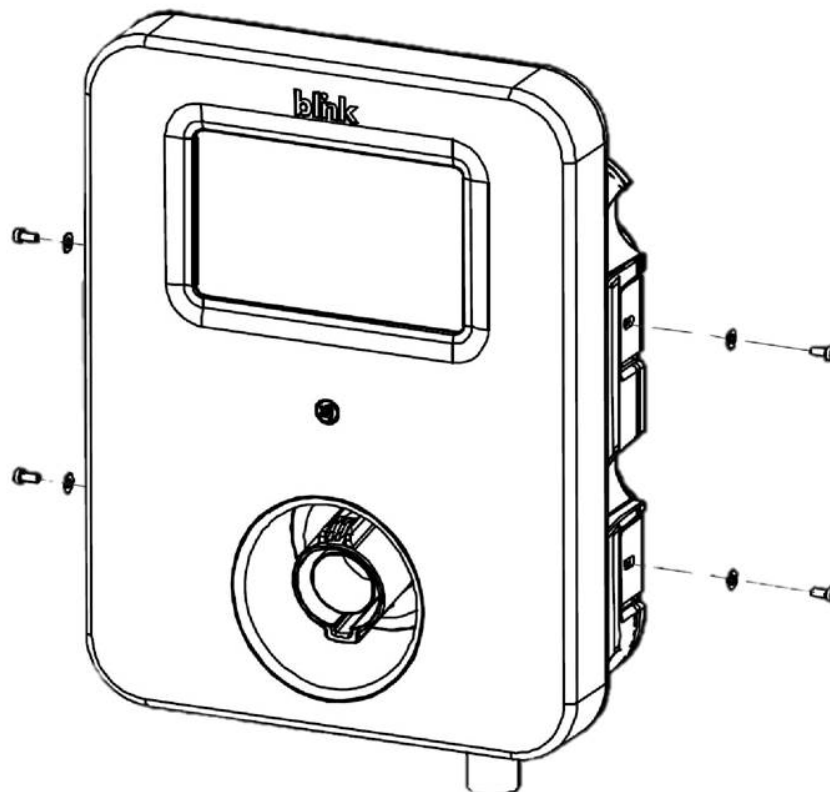
Model	Current Rating
IQW2-80U-M1-R2-N-25 (Advanced) IQW2-80U-W1-N1-N-25 (Smart)	100 A
IQW2-32U-M1-R2-N-25 (32A)	40 A
IQW2-00U-M1-R2-N-00 (Kiosk)	15 A





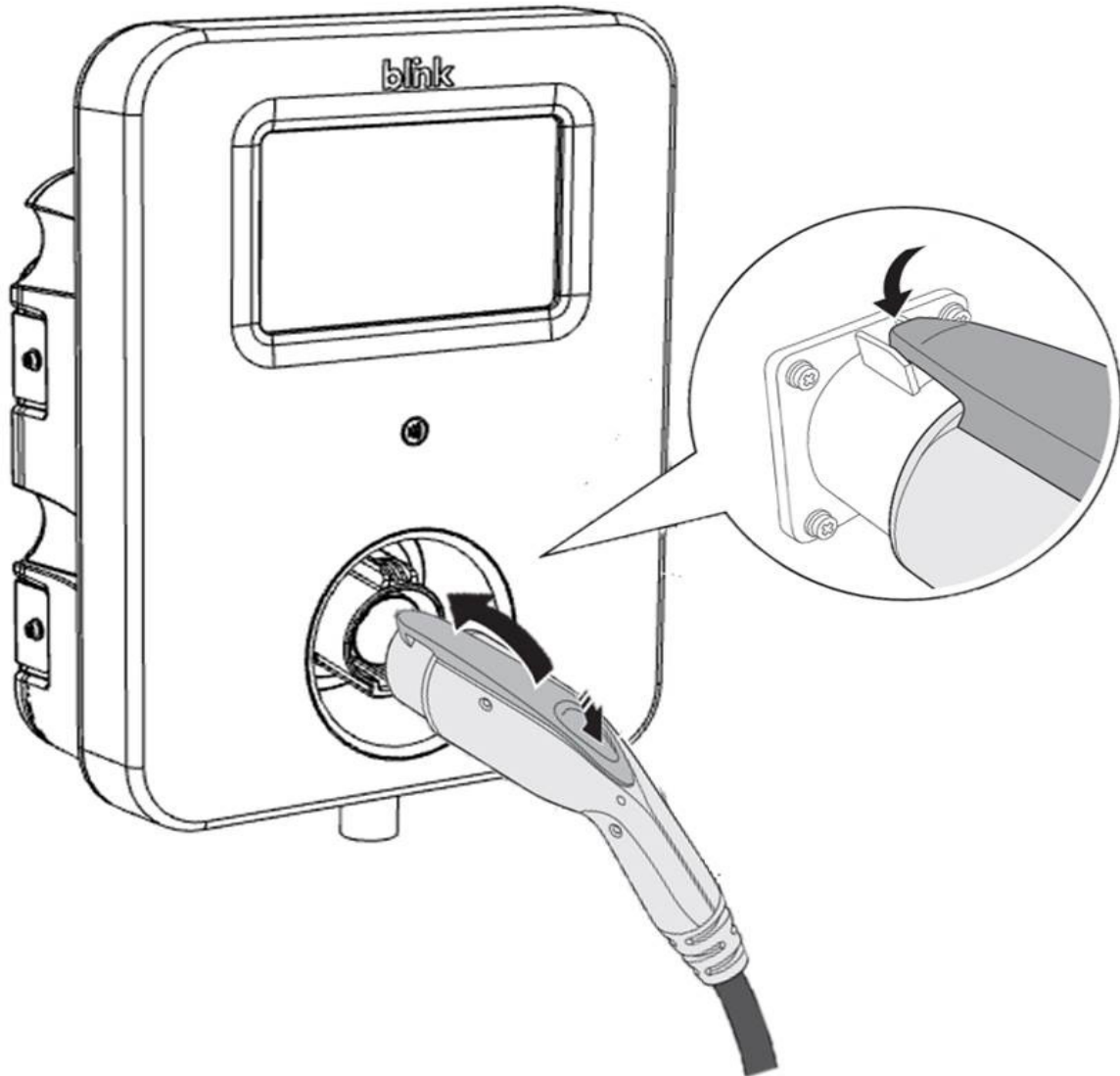
**Figure 3-6. Blink Charger and Mounting Bracket**

**4.** Align the screw holes of the mounting bracket with the Blink charger holes. (Use a torque force of 1.5 newton metre.)



**Figure 3-7. Mounting Bracket Screws.**

**5.** Install and secure with four screws to the mounting bracket. (Use a torque force of 1.5 newton metre)



**Figure 3-8. Blink Charger and Charger Plug.**

# 4 Web Portal Login Instructions

## 4.1 Getting Started

### 4.1.1 Setting Up the Local Network

Firstly, connect a computer to the charge point using an Ethernet cable. There is an Ethernet RJ-45 port in the Blink Charger for connecting.



Figure 4-1. Ethernet RJ-45 Port location.

Secondly, set up a Static IP Address on your computer (except 169.254.63.255, cause it's the default IP of Blink Charger).

Enter the IP address	169.254.xxx. xxx
----------------------	---------------------

## 4.1.2 Log In

**Open a web browser (Internet Explorer for example) and enter the default IP of Blink Charger (169.254.63.255) in the address field of the browser and press enter.**

<http://169.254.63.255/>

**Now you should see the login screen:**



The image shows the Blink login interface. At the top is the 'blink' logo. Below it are two input fields: 'User Name:' and 'Password:'. A 'Login' button is positioned below the password field.

**To be able to configure the charge point you should enter "admin" in the user-name box.**

**The default password for each unit should be different to enhance security.**

**It will be 11-character format (YYWW-SSSSSS) subtracted from ChargePointSerialNumber.**

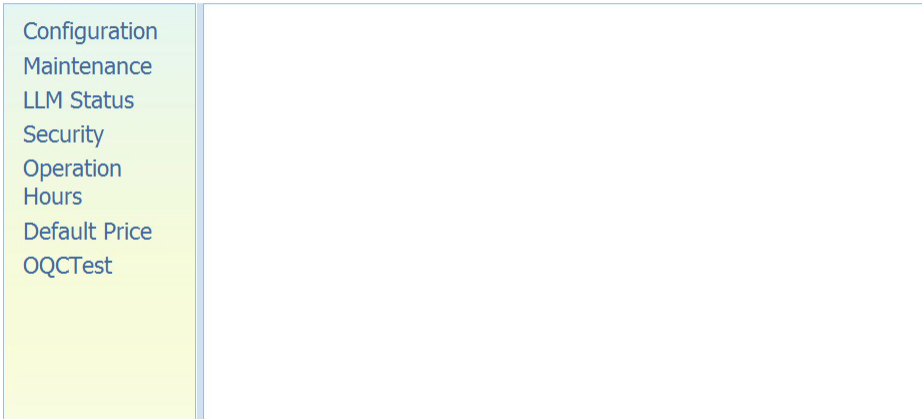
**e.g. 1627-000001**

## 4.2 Web-page Overview

### 4.2.1 Menu Overview

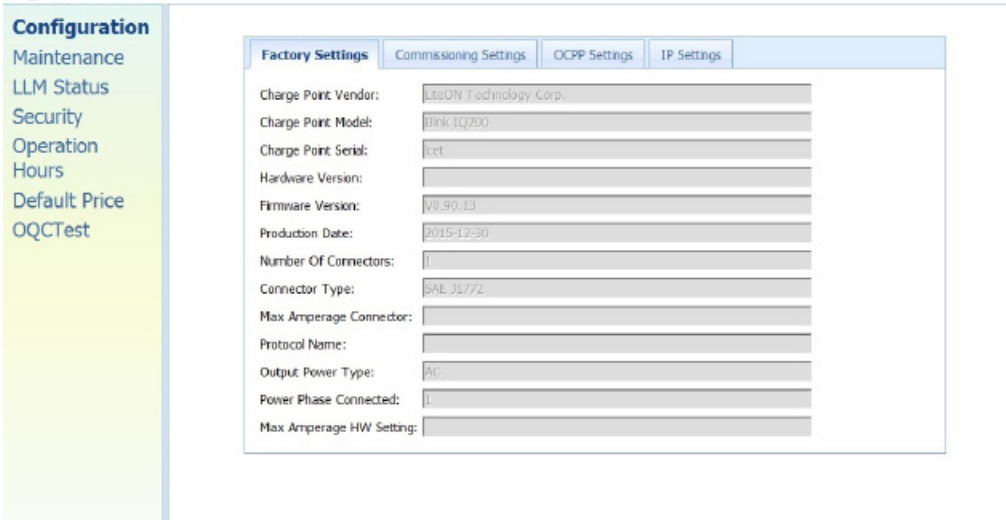
There are five menu items available on the Web-page: Configuration, Maintenance, LLM

Status,



### 4.2.2 Configuration Menu

When



<b>The "Factory Settings" tab</b>	<b>is used to display the information of the charge point.</b>
<b>The "Commissioning Settings" tab</b>	<b>is used to set up the charge point to use the OCPP services.</b>

### 4.2.3 Maintenance Menu

When you choose the Maintenance menu, a sub menu will appear:



The "Command" screen	can be used to restart the charge point and reset settings to MFG default.
The "Firmware Upgrade" screen	can be used to upgrade the firmware of the charge point.

### 4.2.4 LLM Status Menu

When you choose the LLM Status menu, a sub menu will appear:



### 4.2.5 Security Menu

When you choose the Security menu, a sub menu will appear:



The "Change Password" screen	can be used to change the default password.
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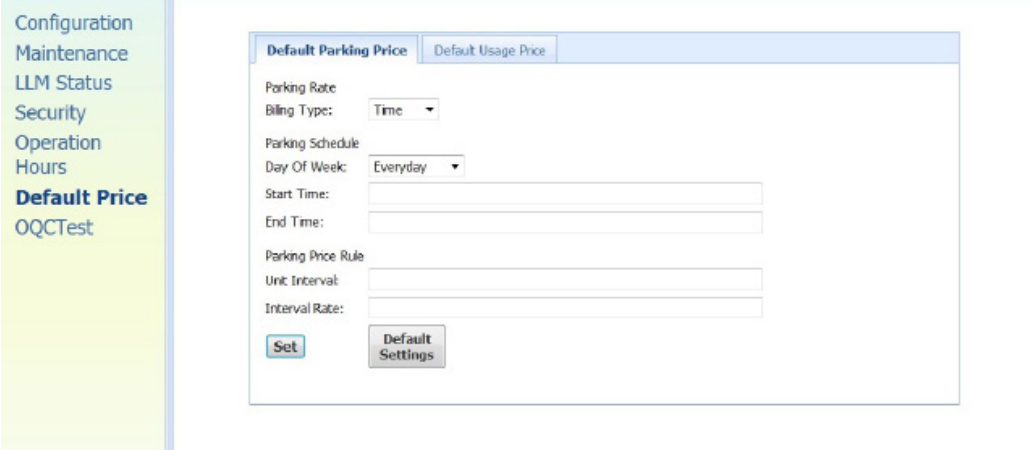
### 4.2.6 Operation Hours Menu

When you choose the Operation Hours menu, a sub menu will appear.



## 4.2.7 Default Price Menu

When you choose the Default Price menu, a sub menu will appear.



<p><b>The “Default Parking Price” screen</b></p>	<p><b>shows the Default Parking Price. Default Parking Price could be modified here or recovery to default setting.</b></p>
<p><b>The “Default Usage Price” screen</b></p>	<p><b>shows the Default Usage Price. Default Usage Price could be modified here or recovery to default setting.</b></p>

## 4.2.8 OQC Test Menu

When you choose the OQC Test menu, a sub menu will appear.





## 4.3 Configuration

### 4.3.1 Factory Settings

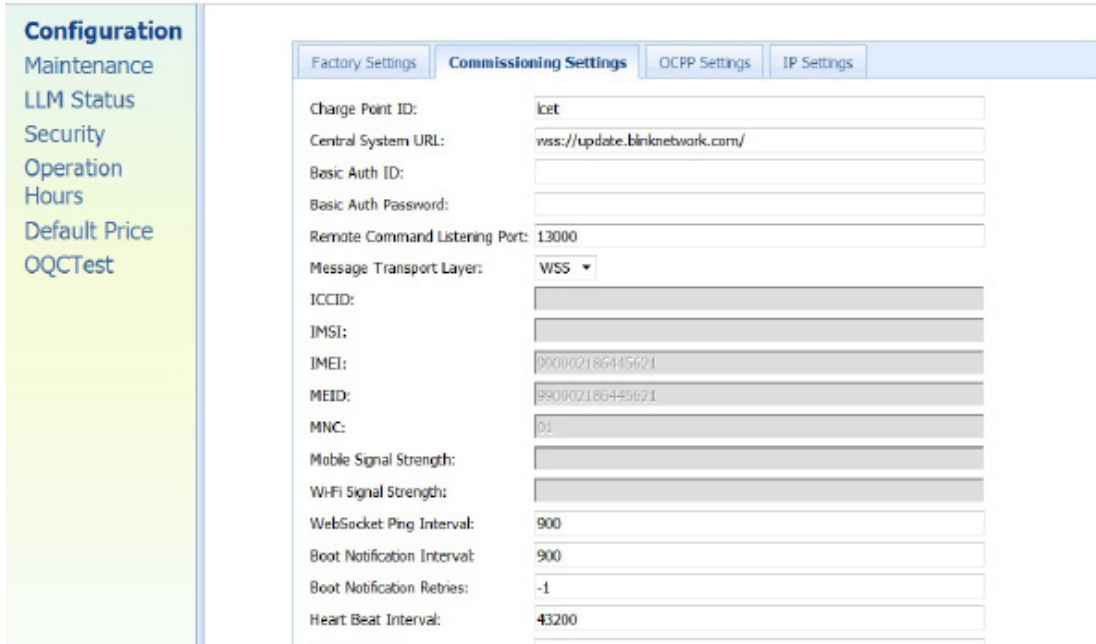
Clicking on the “Configuration” and then “Factory Settings” link will bring up the following screen:



<b>Charge Point Vendor</b>	<b>The name of the charge point vendor.</b>
<b>Charge Point Model</b>	<b>The model of the charge point.</b>
<b>Charge Point Serial</b>	<b>The unique serial number of the charge point.</b>
<b>Hardware Version</b>	<b>The hardware version of the charge point.</b>
<b>Firmware Version</b>	<b>The software version of the charge point.</b>
<b>Production Date</b>	<b>The date when the charge point is made.</b>
<b>Number Of Connectors</b>	<b>Number of connectors of the charge point.</b>
<b>Connector Type</b>	<b>Type of the output cable connector.</b>
<b>Max Amperage Connector</b>	<b>The maximum current output for the charge point.</b>
<b>Protocol Name</b>	The communication protocol between charge point and BOS.

### 4.3.2 Commissioning Settings

Clicking on the “Configuration” and then “Commissioning Settings” link will bring up the following screen:



On this page you can change the properties of IQ-200. Click the “Apply” button when the value is changed.

<b>Charge Point ID</b>	<b>The identity of the charger as known in the OCPP Central System.</b>
<b>Central System URL</b>	<b>The URL of the OCPP Central System service.</b>
<b>Basic Auth ID</b>	<b>The ID for BASIC authentication in HTTPS (SSL/TLS) connections.</b>
<b>Basic Auth Password</b>	<b>The password for BASIC authentication in HTTPS (SSL/TLS) connections.</b>
<b>Remote Command Listening Port</b>	<b>The listening port for remote command of the OCPP Central System service. This property is used only for OCPP SOAP version. The default listening port is 13000.</b>

**blink**

- Configuration**
- Maintenance
- LLM Status
- Security
- Operation Hours
- Default Price
- QOCTest

Upload Diagnostics Interval:	300
Upload Diagnostics Retries:	3
Download AD Interval:	300
Download AD Retries:	3
Meter Sampling Type:	Periodic
Meter Value Sampling Interval:	900
Clock Aligned Data Interval:	900
Max Amperage FW Setting:	80
Cold Load Pickup Max Delay:	720
EV Connect Timeout:	120
Plug And Charge ID:	
Offline Authorization:	ON
Authorize Timeout:	120
Temperature Low:	-15
Temperature High:	45
Voltage Low:	190
Voltage High:	252
Over Current:	
Over Current Retries:	
Dim Option:	Never
Dim Intensity:	
UMTS Dialnumber:	

<b>ICCID</b>	<b>The ICCID of the modem’s SIM card.</b>
<b>IMSI</b>	<b>The IMSI of the modem’s SIM card.</b>
<b>IMEI</b>	<b>IMEI code for UMTS mobile system. e.g. 356938035643809.</b>
<b>MEID</b>	<b>MEID code for CDMA mobile system. e.g. A0123456789012.</b>
<b>MNC</b>	<b>The Mobile Network Code of cellular service provider.</b>
<b>Mobile Signal Strength</b>	<b>Signal strength of mobile network. Unit in “dBm”.</b>
<b>Wi-Fi Signal Strength</b>	<b>Signal strength of Wi-Fi network. Unit in “dBm”.</b>
<b>WebSocket Ping Interval</b>	<b>Defines the webSocket ping interval. Unit in “seconds”.</b>
<b>Boot Notification Interval</b>	<b>Defines the boot notification interval. Unit in “seconds”.</b>
<b>Boot Notification Retries</b>	<b>Defines the boot notification retry times.</b>
<b>Heart Beat Interval</b>	<b>Defines the heartbeat interval. Unit in “seconds”.</b>
<b>Reset Retries</b>	<b>Defines the reset retry times.</b>
<b>Download Firmware Interval</b>	<b>Defines the download firmware interval. Unit in “seconds”.</b>
<b>Download Firmware Retries</b>	<b>Defines the download firmware retry times.</b>

Max Amperage FW Setting	Max Amperage allow base on FW design.
<b>Cold Load Pickup Max Delay</b>	<b>Default cold load pickup delay is 120s ~ 720s.</b> <b>The max value could be changeable (between 120 ~ 720) by this property.</b>
<b>EV Connect Timeout</b>	<b>Interval (from successful authorization) until incipient charging session is automatically cancelled due to failure of EV user to (correctly) insert the charging cable connector(s) into the appropriate socket(s). Unit in "seconds".</b>
<b>Plug And Charge ID</b>	<b>If the value is present, Charge Point needs to support plug and charge scenario by using the specific identifier. If absent, authorization for each session is required.</b>
<b>Offline Authorization</b>	<b>Select if the offline authorization should be enabled or disabled.</b>
<b>Authorize Timeout</b>	<b>Max time interval in seconds between presenting RFID-card and connecting an EV.</b>
<b>Temperature Low</b>	<b>Value in Celsius at which the charger will send a temperature low warning message.</b>
<b>Temperature High</b>	<b>Value in Celsius at which the charger will send a temperature high warning message.</b>
<b>Voltage Low</b>	<b>Value at which the charger will send an under voltage warning message.</b>
<b>Voltage High</b>	<b>Value at which the charger will send an over voltage warning message.</b>
<b>Over Current</b>	<b>Value at which the charger will send an over current warning message.</b>
<b>Over Current Retries</b>	<b>Defines the over current recovery retry times.</b>

**Configuration**

Maintenance

LLM Status

Security

Operation

Hours

Default Price

OQCTest

Voltage High:

Over Current:

Over Current Retries:

Dim Option:

Dim Intensity:

UMTS Dialnumber:

UMTS Apn Name:

UMTS Apn User:

UMTS Apn Password:

CDMA Dialnumber:

CDMA Apn Name:

CDMA Apn User:

CDMA Apn Password:

Fallback Amperage:

Resume Charging:

---

**Internal Settings**

RFID Reader:

Continue Charging:

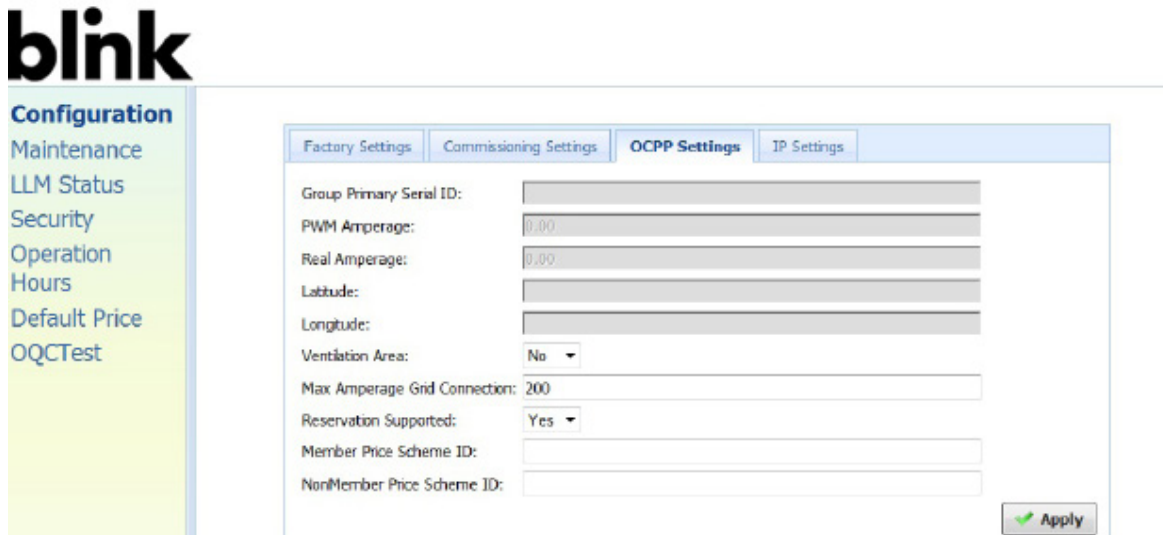
<b>Dim Option</b>	<b>Indicate the timing to turn off LCD backlight. Valid options are:</b>
	<b>1) Never (default).</b>
	<b>2) 1 (minutes).</b>
	<b>3) 2 (minutes).</b>
	<b>4) 3 (minutes).</b>
	<b>5) 4 (minutes).</b>
	<b>6) 5 (minutes).</b>
<b>7) 10 (minutes).</b>	
<b>Dim Intensity</b>	<b>The percentage of the backlight when DimOption is enabled. Unit in %.</b>
<b>UMTS Dialnumber</b>	<b>Dial-in number to access UMTS mobile network (e.g. AT&amp;T).</b>
<b>UMTS Apn Name</b>	<b>APN name to access UMTS mobile network (e.g. AT&amp;T).</b>
<b>UMTS Apn User</b>	<b>APN user name to access UMTS mobile network (e.g. AT&amp;T).</b>
<b>UMTS Apn Password</b>	<b>APN user password to access UMTS mobile network (e.g. AT&amp;T).</b>
<b>CDMA Dialnumber</b>	<b>Dial-in number to access CDMA mobile network (e.g. Verizon).</b>
<b>CDMA Apn Name</b>	<b>APN name to access CDMA mobile network (e.g. Verizon).</b>
<b>CDMA Apn User</b>	<b>APN user name to access CDMA mobile network (e.g. Verizon).</b>
<b>CDMA Apn Password</b>	<b>APN user password to access CDMA mobile network (e.g. Verizon).</b>
<b>Fallback Amperage</b>	<b>The fallback charging current when a Charge Point is offline, no matter in Standalone / Primary Secondary modes. Unit in "A".</b>
<b>Resume Charging</b>	<b>Indicate if Charge Point resumes charging after power recycle. If true, Charge Point will resume charging according to UL regulations. If false, Charge Point will not resume charging according to CCGI's scenario. Default is false.</b>

## Interanl Settings

<b>RFID Reader</b>	<b>Select if the RFID service should be enabled or disabled.</b>
<b>Continue Charging</b>	<b>Select whether to resume charging after power outage.</b>

### 4.3.3 OCPP Settings

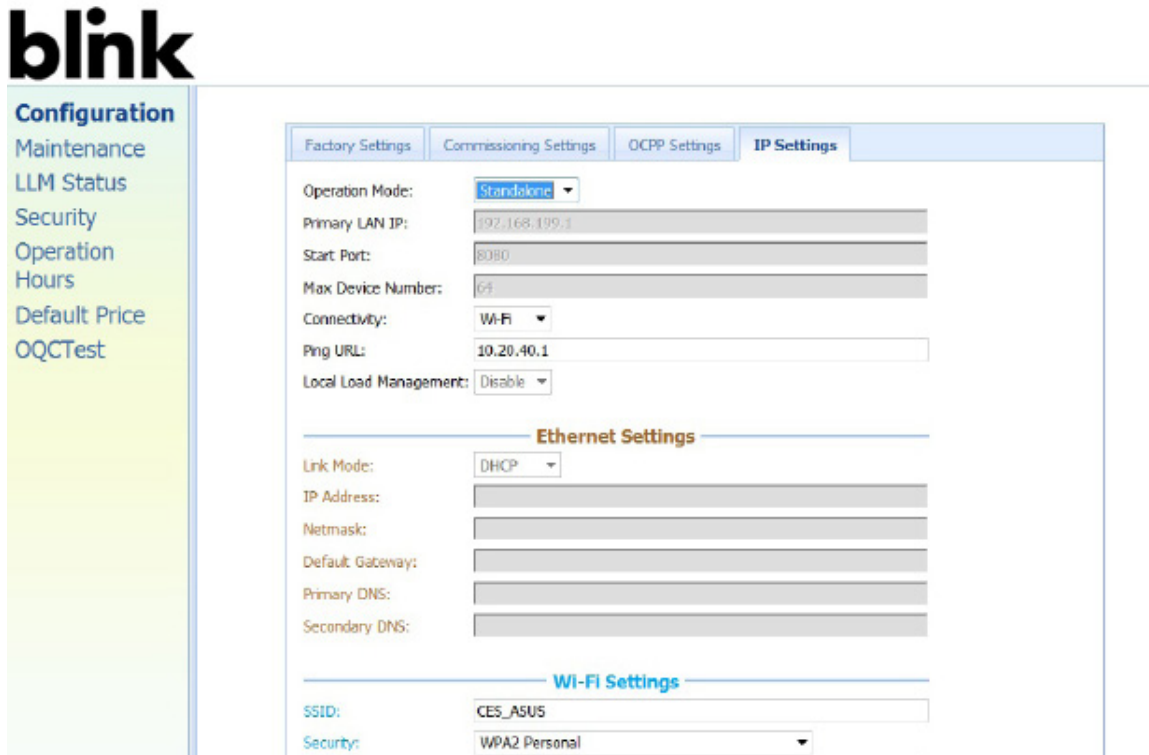
Clicking on the “Configuration” and then “OCPP Settings” link will bring up the following screen:



<b>Group Primary Serial ID</b>	<b>The charge box serial number of Primary in the group if it's LLM enabled.</b>
PWM Amperage	The amperage used by PWM shown to EV.
Real Amperage	The real-time measured amperage of charger.
Latitude	Latitude of the location.
Longitude	Longitude of the location.
Ventilation Area	Show if charge point installed in ventilation required area.
Max Amperage Grid Connection	Maximum current of the input power source grid.
Reservation Supported	If true, Charge Point will support reservation related messages from Central System.
Member Price Scheme ID	The default price scheme ID will be used for Blink members when a Charge Point is offline.
Non Member Price Scheme ID	The default price scheme ID will be used for NON Blink members when a Charge Point is offline.

### 4.3.4 IP Settings

Clicking on the “Configuration” and then “IP Settings” link will bring up the following screen:



On this page you can set up the network connection. To finish, click the “Apply” button.

<b>Operation Mode</b>	<b>Specifies if enable the Local Proxy function. Available options are Standalone, Primary and Secondary. The Combo box will be disabled if your charge point does not support this function. And Device Mode will be set as Standalone.</b>	
	<b>Standalone</b>	<b>Use charge point as a single device.</b>
	<b>Primary</b>	<b>Use charge point as a primary charge point. Primary connected to OCPP Server via 3G and connected to other charge points (Called Secondary) via Wi-Fi and forms a local charge points group. This group is also a WLAN (Wireless Local Area Network).</b>
	<b>Secondary</b>	<b>Use charge point as a Secondary charge point. Secondary connected to Primary via Wi-Fi. Secondary connected to OCPP Server through Primary charge point (via 3G) and Primary will dispatch incoming remote command to proper Secondary charge points (or Primary itself).</b>
<b>Primary LAN IP</b>	<b>The IP of primary in LAN. This value cannot be modified by users.</b>	

<b>Max Device Number</b>	<b>The maximum number of charge points allowed in a group/LAN. This value cannot be modified by users.</b>
<b>Connectivity</b>	<b>Specifies whether the charge point should always be connected to Internet using Auto, Ethernet, or 3G. Default value is Auto.</b>
<b>Ping URL</b>	<b>Address of the host that the charge point will ping for the Ethernet connection. This value will automatically set to the address of "Server URL".</b>
<b>Local Load Management</b>	<b>Enable or Disable local load management function. This function can only be enabled in a primary charge point.</b>

**HINT:** If user changes "Device Mode" setting, then related settings will also change automatically such as "Connectivity", "Local Load Management". The default value is as follow:

	Standard Alone	Primary	Secondary
<b>Primary LAN IP</b>	Not used	Default value, not changeable	Not used
Start Port	Not used	Default value, not changeable	Not used
Max Device Number	Not used	Default value, not changeable	Not used
Connectivity	Auto	3G, not changeable	Wi-Fi, not changeable
Ping URL	User setting	User setting	User setting
Local Load Management	Disable, not changeable	Enable	Enable

#### 4.3.4.1 Ethernet Settings

<b>Link Mode</b>	<b>Configure the Ethernet port to use DHCP or Static IP. If you select Static IP from the dropdown menu, you need to enter values for IP Address, Netmask, and Default Gateway fields.</b>
<b>IP Address</b>	<b>The IP address of the charge point.</b>
<b>Netmask</b>	<b>The subnet mask.</b>
<b>Default Gateway</b>	<b>The default gateway.</b>
<b>Primary DNS</b>	<b>The primary Domain Name Server (optional).</b>
<b>Secondary DNS</b>	<b>The secondary Domain Name Server (optional).</b>



### 4.3.4.2 Wi-Fi Settings

<b>SSID</b>	<b>SSID name to access Wi-Fi network (WAN).</b>
<b>Security</b>	<b>Security methods to access Wi-Fi network (WAN). Possible options are:</b>
	<b>1) NONE</b>
	<b>2) WPA_PERSONAL</b>
	<b>3) WPA_ENTERPRISE</b>
	<b>4) WPA2_PERSONAL</b>
	<b>5) WPA2_ENTERPRISE</b>
	<b>6) WEP</b>
	<b>7) IEEE8021X</b>
	<b>8) WPA2_PERSONAL_SHA256</b>
<b>9) WPA2_ENTERPRISE_SHA256</b>	
<b>EAP</b>	<b>Mandatory for the following security: IEEE8021X.</b>
<b>User Name</b>	<b>Mandatory for the following security:</b>
	<b>WPA_ENTERPRISE, WPA2_ENTERPRISE, IEEE8021X, WPA2_ENTERPRISE_SHA256.</b>
<b>Password</b>	<b>SSID password to access Wi-Fi network (WAN).</b>



**Configuration**

- Maintenance
- LLM Status
- Security
- Operation
- Hours
- Default Price
- OQCTest

**Wi-Fi Settings**

SSID:

Security:

EAP:

User Name:

Password:

**Cellular Settings**

APN Name:

APN User:

APN Password:

Dial Number:

PIN Code:

Primary DNS:

Secondary DNS:

**Local Load Management Settings**

Charging Policy:

Fallback Current:

Group Identity:

Group Position:

Group Charger Number:

#### 4.3.4.3 Cellular Settings

<b>APN Name</b>	This is the gateway for all 3G traffic. Contact your 3G operator for information about this.
<b>APN User</b>	This is the user name your ISP has assigned to you (optional).
<b>APN Password</b>	Password to log into the ISP network (optional).
<b>Dial Number</b>	Phone number to dial.
<b>PIN Code</b>	PIN code for the modem's SIM card (optional).
<b>Primary DNS</b>	The primary Domain Name Server (optional).
<b>Secondary DNS</b>	The secondary Domain Name Server (optional).

#### 4.3.4.4 Local Load Management Settings

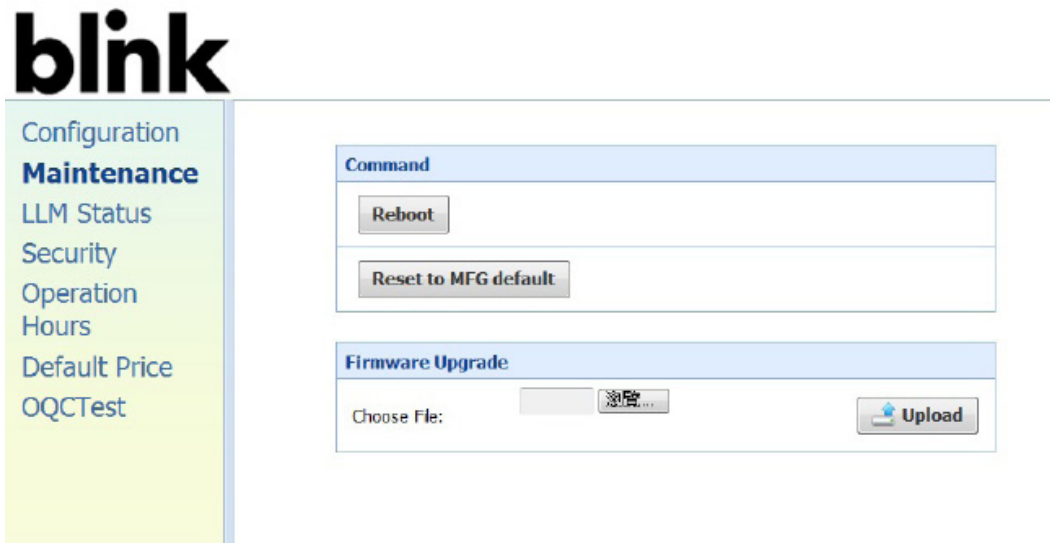
<b>Charging Policy</b>	The charging policy for LLM primary to decide the charging current for each charger.	
	Valid options are:	
	<b>1) UD (default)</b>	Uniform Distribution. The max. Amperage is divided by total numbers of charging EV, i.e. each EV will use the same charging current.
	<b>2) FIFS</b>	First In First Serve.
<b>Fallback Current</b>	The fallback current when Secondary is not able to communicate with Primary. Primary will overwrite fallback current in Secondary with its own value when Secondary connected to Primary.	
<b>Group Identity</b>	An identity of the LLM group. A Secondary with different group identity will be rejected when attempting to connect to Primary.	
<b>Group Position</b>	The physical position order of the charger in the LLM group.	
<b>Group Charger Number</b>	The total number of chargers in the LLM group. This value is only used in Primary.	

## 4.4 Maintenance

### 4.4.1 Command

To restart the charge point, click the “Reboot” button.

To reset the MFG default, click the “Reset to MFG default” button.



### 4.4.2 Firmware Upgrade

To upgrade the firmware of the charge point, you need to download the upgrade image file to your local hard disk, and then click the “Choose File” button to locate the firmware file on your computer. Once you have selected the new firmware file, click the “Upload” button to start the upgrade process.

## 4.5 LLM Status

### 4.5.1 LLM Information

This page shows the Local Load Management information of the charge point.

<b>Device Operation Mode</b>	Indicates the charger is in Standalone mode, a Primary or a Secondary.
<b>LLM Mode</b>	Indicates LLM function is enabled or disabled.
<b>Network Status</b>	Indicates if the charger is online or not.
<b>Primary Status</b>	Indicates if the charger is connected to the Primary if it's a Secondary.  For Standalone and Primary, it always shows "Connected to Primary".
<b>Network Active Device</b>	Indicates the Network connected via which device. It could be Offline, Ethernet or 3G.
<b>Local Load Management Status</b>	Display connected chargers, total chargers, Group ID of the LLM group as well as a full table of detail information each charger if this charger is Primary.



- Configuration
- Maintenance
- LLM Status**
- Security
- Operation
- Hours
- Default Price
- OQCTest

**Local Load Management Status**

Device Operation Mode: Standalone

LLM Mode: LLM Disabled

Network Status: Online

Primary Status: Connected to Primary

Network Active Device: GPRS

Local Load Management Status: 0/1 chargers, GroupID=

Index	Serial Number	IP	Wire Type	Request	PWM	Line 1

### 4.5.2 Primary/Secondary Group Table

If the charge point is Master, the following LLM Group Table is present.

## 4.6 Security

### 4.6.1 Change Password

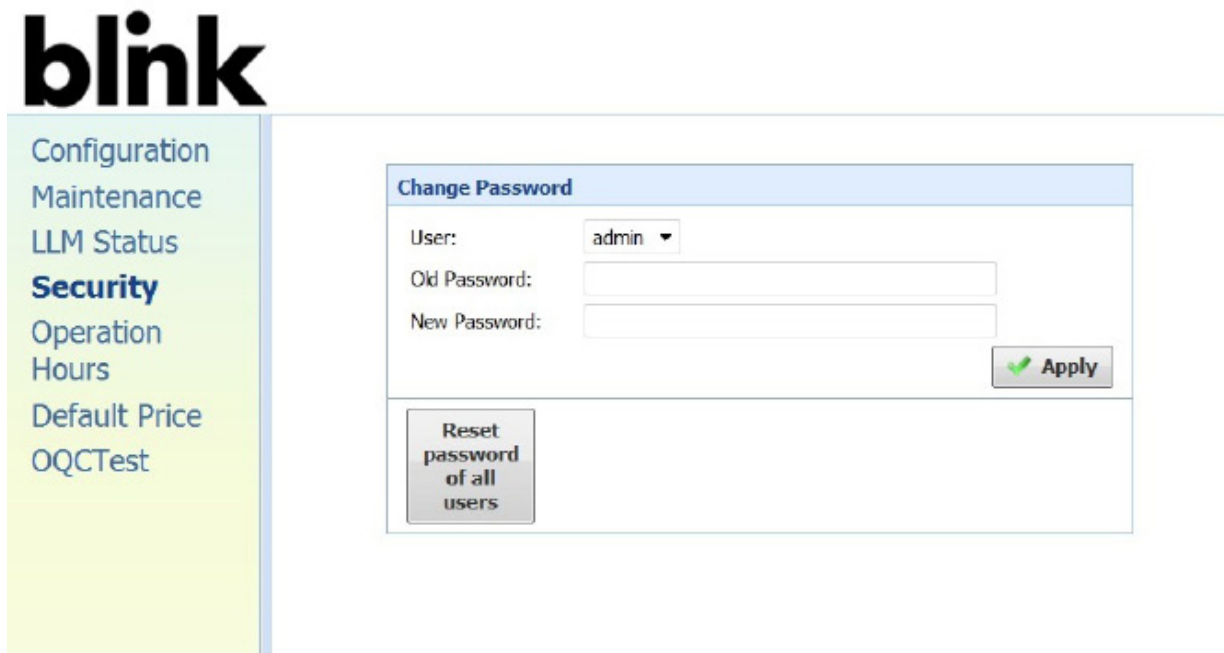
To change password, first choose user you want to change password. There are two default users –

admin and maintain.

Only admin user can access Security Page.

Enter old password and new password then press “Apply” button to change password of the user.

To reset password of all users, press “Reset password of all users” button.



## 4.7 Operation Hours

### 4.7.1 Operation Hours

The “Operation Hours” screen shows the Operation Hour Setting of the whole Weekly. Operation Hour could be modified here or recovery to default setting.



- Configuration
- Maintenance
- LLM Status
- Security
- Operation Hours**
- Default Price
- OQCTest

Operation Hours	
Start	End
Mon: <input type="text" value="00:00"/>	<input type="text" value="23:59"/>
Tue: <input type="text" value="00:00"/>	<input type="text" value="23:59"/>
Wed: <input type="text" value="00:00"/>	<input type="text" value="23:59"/>
Thu: <input type="text" value="00:00"/>	<input type="text" value="23:59"/>
Fri: <input type="text" value="00:00"/>	<input type="text" value="23:59"/>
Sat: <input type="text" value="00:00"/>	<input type="text" value="23:59"/>
Sun: <input type="text" value="00:00"/>	<input type="text" value="23:59"/>
<input type="button" value="Set"/>	<input type="button" value="Default Settings"/>

Charge on.

## 4.8 Default Price

### 4.8.1 Default Parking Price

Interval Rate	The base rate of EVSE to be applied for current pricing rule schedule entry.
---------------	--

Parking Rate	
Billing Type	Billing type, e.g. per time, per session or per kWh.
Parking Schedule	
Day of Week	Indicate the Day of Week.
	Monday Based on ISO8601, Monday is the first day of week.
	Tuesday Based on ISO8601, Tuesday is the second day of week.
	Wednesday Based on ISO8601, Wednesday is the third day of week.
	Thursday Based on ISO8601, Thursday is the fourth day of week.
	Friday Based on ISO8601, Friday is the fifth day of week.
	Saturday Based on ISO8601, Saturday is the sixth day of week.
	Sunday Based on ISO8601, Sunday is the seventh day of week.
	Weekday Include Monday, Tuesday, Wednesday, Thursday and Friday.
	Weekend Include Saturday and Sunday.
	Everyday Every day.
Start Time	The start time of this schedule. It is always a 4-digit string, formatted HHMM. If it is null, startTime is "00:00".
End Time	The end time of this schedule. It is always a 4-digit string, formatted HHMM. If it is null, endTime is "23:59". The endTime SHALL be larger than startTime.
Parking Price Rule	
Unit Interval	The interval rate to be captures like per kwh, per 30 seconds etc. In this example interval rate is 1800 seconds.

## 4.8.2 Default Usage Price



- Configuration
- Maintenance
- LLM Status
- Security
- Operation Hours
- Default Price**
- OQCTest

Default Parking Price
Default Usage Price

Usage Rate

Billing Type: Time

Usage Schedule

Day Of Week: Everyday

Start Time:

End Time:

Usage Price Rule

Unit Interval:

Interval Rate:

Set
Default Settings

Usage Rate	
Billing Type	Billing type, e.g. per time, per session or per kWh.
Usage Schedule	
Day of Week	Indicate the Day of Week.
	Monday Based on ISO8601, Monday is the first day of week.
	Tuesday Based on ISO8601, Tuesday is the second day of week.
	Wednesday Based on ISO8601, Wednesday is the third day of week.
	Thursday Based on ISO8601, Thursday is the fourth day of week.
	Friday Based on ISO8601, Friday is the fifth day of week.
	Saturday Based on ISO8601, Saturday is the sixth day of week.
	Sunday Based on ISO8601, Sunday is the seventh day of week.
	Weekday Include Monday, Tuesday, Wednesday, Thursday and Friday.
	Weekend Include Saturday and Sunday.
	Everyday Every day.
Start Time	The start time of this schedule. It is always a 4-digit string, formatted HHMM. If it is null, startTime is "00:00".
End Time	The end time of this schedule. It is always a 4-digit string, formatted HHMM. If it is null, endTime is "23:59". The endTime SHALL be larger than startTime.
Usage Price Rule	
Unit Interval	The interval rate to be captures like per kwh, per 30 seconds etc. In this example interval rate is 1800 seconds.
Interval Rate	The base rate of EVSE to be applied for current pricing rule schedule entry.

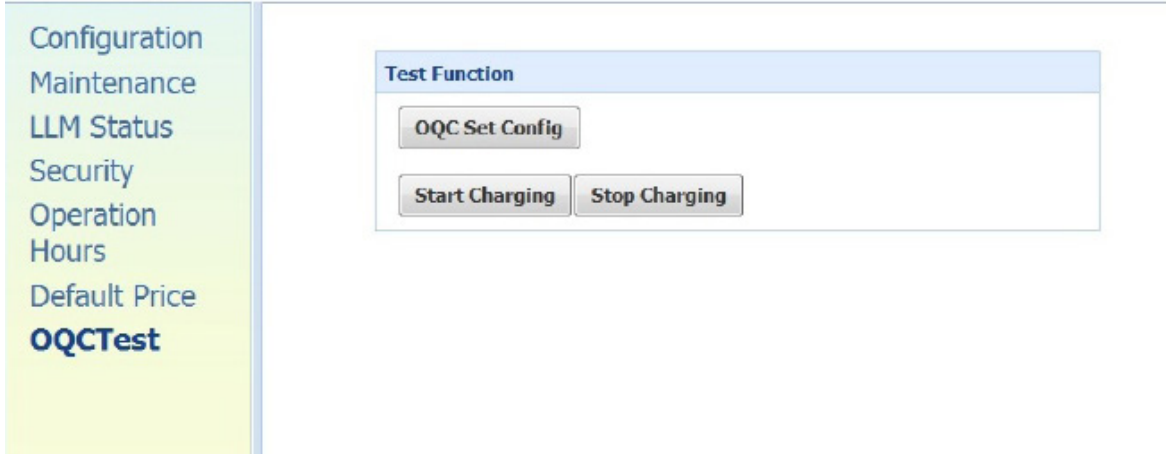


## 4.9 OQC Test

### 4.9.1 Test Function

**This page shows some functions for internal or quality department testing use.**

**We recommend that users do not try to use any of the functions here.**










The screenshot shows a web interface for the 'blink' system. On the left is a vertical navigation menu with the following items: Configuration, Maintenance, LLM Status, Security, Operation Hours, Default Price, and **OQCTest**. The main content area is titled 'Test Function' and contains three buttons: 'OQC Set Config', 'Start Charging', and 'Stop Charging'.

# 5 Operations

## 5.1 About the Charger

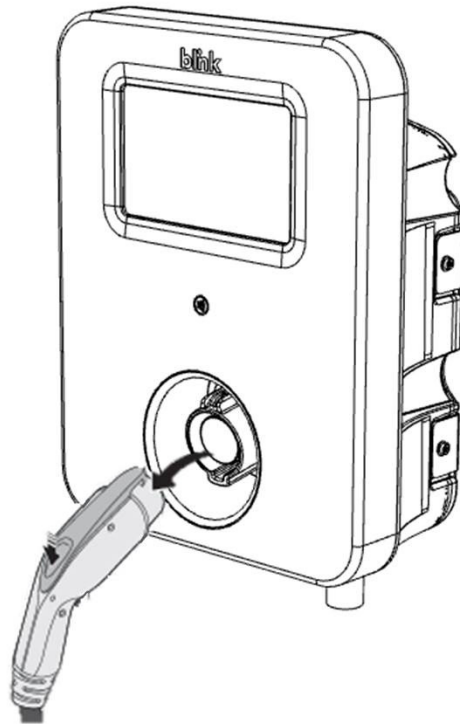
### 5.1.1 Charging Status Indicators

**Table 5-1. Charging Status Indicators.**

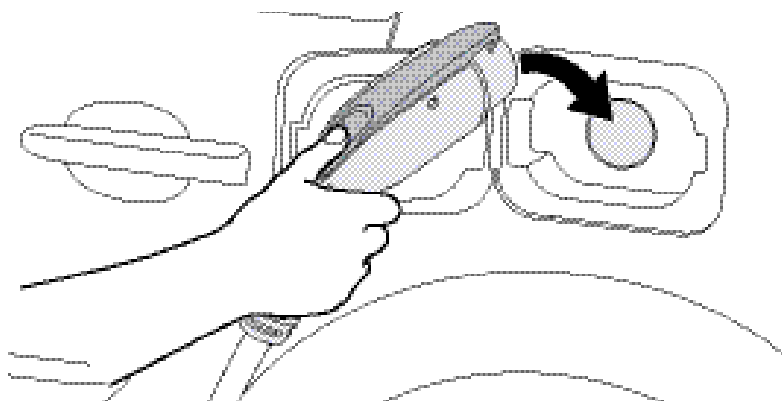
Charger Plug LED Indicator	DESCRIPTION	DEFINITION
	Not illuminated	Charger is powered OFF.
	Steady Green	Charger is powered ON / Ready for charging / Charge Complete.
	Flashing Green (Fast)	Flashing green (Fast) = Vehicle Connected / Ready for charging.
	Flashing Blue (Slow)	Flashing blue (Slow) = Charging in process.
	Flashing Red	Warning / Fault.
	Steady Yellow	Charger booting.
	Flashing Yellow	Firmware Upgrading.

## 5.2 Charging an Electric Vehicle (EV)

1. Release the charging plug from the charger holster and connect it to the EV.



**Figure 5-1. Remove the Charging Plug from the Charger Holster.**



**Figure 5-2. Connect the Charging Plug to the EV.**

2. Insert the charging plug into the EV

3. Go to Blink Charger, and to follow the instruction shown on the screen



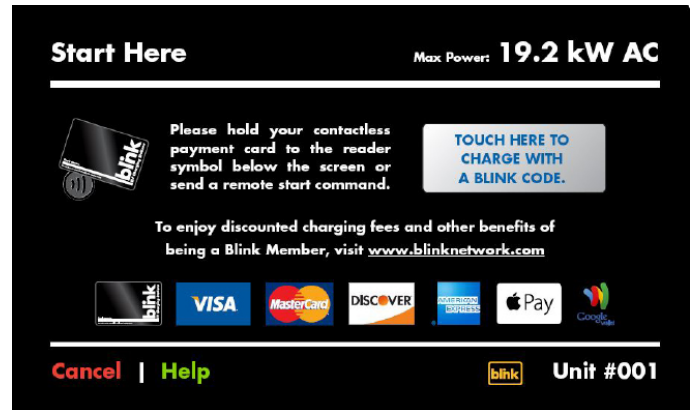
**Figure 5-3. Blink Charger screen.**



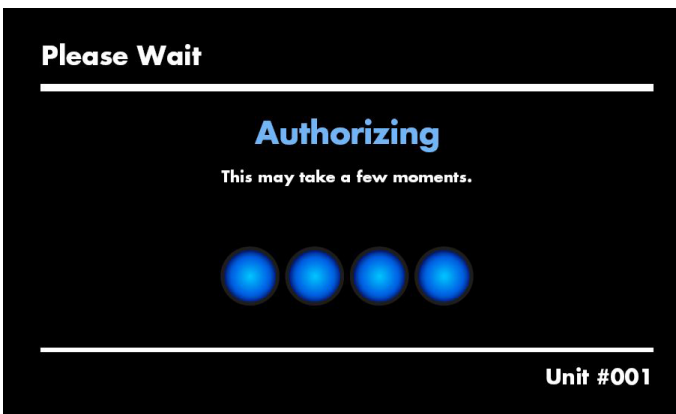
Touch Anywhere to Begin | [Help](#) | [Rates](#) Unit #001

## 1. START CHARGING

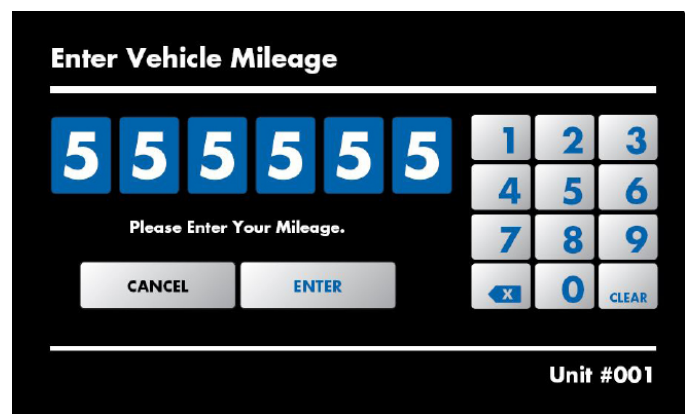
Touch anywhere of the screen to begin.



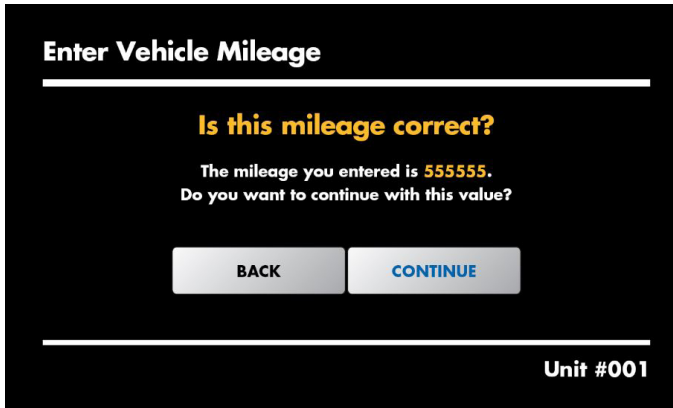
## 2. SWIPE CARD



## 3. WAITING FOR AUTHORIZING

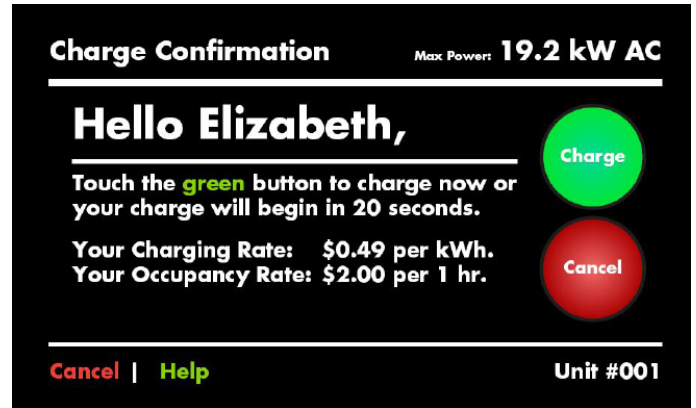


## 4. ENTER VEHICLE MILEAGE

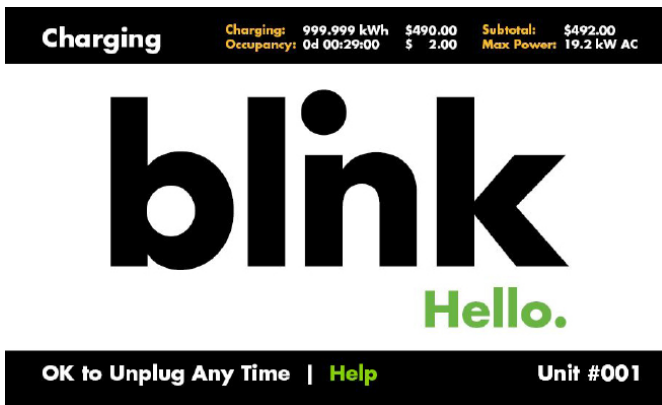


## 5. DOUBLE CONFIRM THE MILEAGE

Press "CONTINUE" to the next page.



## 6. CHARGE CONFIRMATION



## 7. CHARGING SESSION STARTED

## 5.3 Stop Charging

**Charging**      Charging: 999.999 kWh \$490.00      Subtotal: \$492.00  
 Occupancy: 0d 00:29:00 \$ 2.00      Max Power: 19.2 kW AC



OK to Unplug Any Time | [Help](#)      Unit #001

### 1. UNPLUG ANY TIME

Disconnect the charging plug from EV to stop charging session.

**Session Ended**

---

**Thank you,  
goodbye.**

---

Please return the connector to the holster.

---

[Help](#)      Unit #001

### 3. SESSION ENDED

Please return the connector to the holster and touch anywhere of the screen.

**Cost Summary**      Total Cost: \$492.00  
 Max Power: 19.2 kW AC

Item	Quantity	Rate	Cost
Charging	999.999 kWh	\$ 0.49 per kWh	\$490.00
Occupancy	0d 00:29:00	\$ 2.00 per 1 hr.	\$ 2.00

---

Date: 04-22-2016      Subtotal: \$492.00  
 Time: 03:21:05 PM      Tax: \$ 0.00  
 Service Fee: \$ 0.00

---

**Total Cost: \$492.00**

[Help](#)      Unit #001

### 2. READ COST SUMMARY

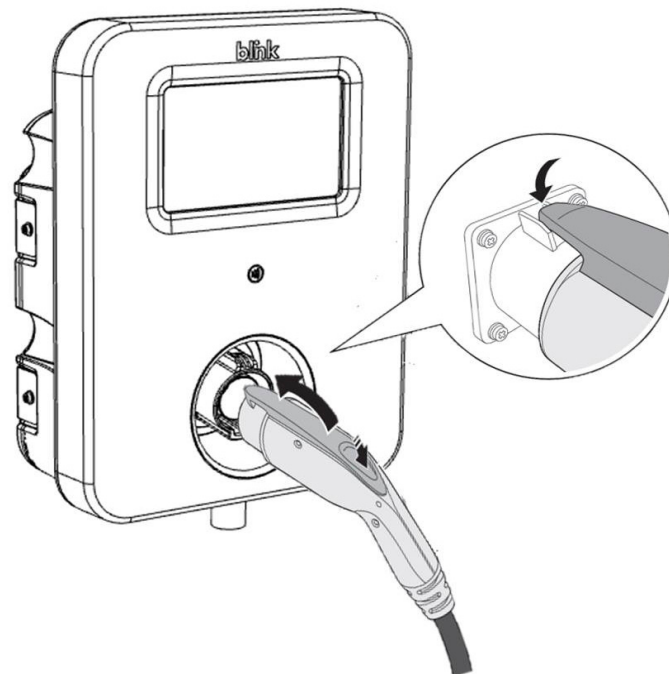
Read the cost summary and then press "CLOSE".

**blink**  
Hello.

---

Touch Anywhere to Begin | [Help](#) | [Rates](#)      Unit #001

### 4. GO BACK TO THE MAIN SCREEN



**Figure 5-4. Place the Charging Plug into the Charger Holster.**

### 5.3.1 Interrupt Charging

Please refer to STOP CHARGING section for more information.

### 5.3.2 Auto Restart

When a charging session is interrupted due to a temporary error condition, the Blink Charger will automatically restart charging when the cause of the temporary error condition returns to normal. Status indicator lights remain flashing RED until the error condition is resolved.

- Temporary error conditions include: Over Current, Over Voltage, Under Voltage, Over Temperature.
- For Over Current conditions: The charging session will stop while OC occurs. After recovery from OC for 30 seconds, Blink Charger will automatically restart charging for three times.
- When charging session stopped due to CCID trip, Blink Charger will try to restart after 15 minutes for 3 times.

### 5.3.3 Power Outage Recovery

When power resumes after an outage, the Blink Charger restarts automatically with a delay ranging from 120 to 720 seconds. The delay is designed to avoid impacting the utility grid when multiple chargers are in the same area attempting to resume charging simultaneously.



## 5.4 Troubleshooting

If an error message is displayed during the charging process, follow the associated instructions out-lined in below troubleshooting table.

**Table 5-2. Troubleshooting Description.**

SITUATION	Screen Displayed	ACTION
Out Of Service (Station Disabled)		<ol style="list-style-type: none"> <li>1. Station Disabled.</li> <li>2. Please call 1-888-998-BLINK (2546) for assistance.</li> </ol>
Out Of Service (Internal Maintenance)		<ol style="list-style-type: none"> <li>1. Internal Maintenance.</li> <li>2. Please call 1-888-998-BLINK (2546) for assistance.</li> </ol>
Not Within Hours of Operation		<ol style="list-style-type: none"> <li>1. Wait until the Station open at the Time which displayed on the top-right of the screen.</li> <li>2. Touch "Hours of Operations" for more information of the Hours of Operation.</li> <li>3. You could refer to the next Item.</li> </ol>
Display "Hours of Operation" screen		<ol style="list-style-type: none"> <li>1. Display detail Hours of Operation on the screen.</li> </ol>

SITUATION	Screen Displayed	ACTION
<p>The Station will be closed less than N minutes. (Default: 120 minutes.)</p>		<ol style="list-style-type: none"> <li>1. In this case, the Station will be close within 1 hour 37 minutes.</li> <li>2. You could either touch "Continue" to charge now and expect to stop within 1 hour 37 minutes, or touch "Cancel" to wait until the Station reopen at 6:00AM Wednesday.</li> <li>3. For more assistance, please call 1-888-998-BLINK (2546).</li> </ol>
<p>Unable to Read Payment Card</p>		<ol style="list-style-type: none"> <li>1. Please try to swipe card again or touch "Help" for more information.</li> </ol>
<p>Payment Card Declined</p>		<ol style="list-style-type: none"> <li>1. There appears to be an issue with your card or account.</li> <li>2. For assistance, please call 1-888-998-BLINK (2546).</li> </ol>
<p>Blink Code is not Valid.</p>		<ol style="list-style-type: none"> <li>1. This code has expired. Blink Codes are only valid for 24 hours.</li> <li>2. To purchase another Blink Code visit <a href="http://www.blinkcode.com">www.blinkcode.com</a>.</li> <li>3. For assistance, please call 1-888-998-BLINK (2546).</li> </ol>
<p>Blink Code Access is unavailable.</p>		<ol style="list-style-type: none"> <li>1. Blink Code is unavailable at this time.</li> <li>2. For assistance, please call 1-888-998-BLINK (2546).</li> </ol>

SITUATION	Screen Displayed	ACTION
<p>The Selected Blink Unit is an invalid Unit.</p>		<ol style="list-style-type: none"> <li>1. Please reconfirm your Unit # and retry.</li> <li>2. For assistance, please call 1-888-998-BLINK (2546).</li> </ol>
<p>The Selected Blink Unit is currently in-use or unavailable.</p>		<ol style="list-style-type: none"> <li>1. Please try to a different charging station.</li> <li>2. For assistance, please call 1-888-998-BLINK (2546).</li> </ol>
<p>Fault (Case 1).</p>		<ol style="list-style-type: none"> <li>1. A fault occurred.</li> <li>2. System will automatically reset the fault in 15 minutes.</li> <li>3. You may also touch the reset button to manually reset the system.</li> <li>4. For assistance, please call 1-888-998-BLINK (2546).</li> </ol>
<p>Fault (Case 2).</p>		<ol style="list-style-type: none"> <li>1. A fault occurred.</li> <li>2. Touch the reset button to manually reset the system.</li> <li>3. For assistance, please call 1-888-998-BLINK (2546).</li> </ol>
<p>Fault (Case 3).</p>		<ol style="list-style-type: none"> <li>1. A fault occurred.</li> <li>2. Please wait while the system attempts to clear the fault.</li> <li>3. For assistance, please call 1-888-998-BLINK (2546).</li> </ol>

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## 5.5 General Care

The exterior of the Charger is designed to be waterproof and dust proof. To ensure proper maintenance of the charger, follow these guidelines:

- Despite the water resistance of the enclosure, when cleaning it is preferred to not direct streams of water at the unit. Clean with a soft, damp cloth.
- Make sure the charging plug is put back in the holster after charging to avoid damage.
- Ensure the power cable is stored on the charger after use to avoid damage.
- If the power cable or the charging plug is damaged contact Customer Support.

## 5.6 Customer Support

If the Charger is not operational or you need our assistance, please call:

**1-888-998-BLINK (2546).**