



OWNER'S MANUAL

Electric Vehicle Charger

Read the "IMPORTANT SAFETY INSTRUCTIONS" before use to ensure safe operation.

After reading the owner's manual, store it in an accessible place for easy reference.

EVD350DL-PN + EVP175NK-NN + EVP175NK-NN

MFL05757701

(2411-REV00)

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PRE-CHECK INFORMATION

- The information provided in this document includes general descriptions or technical characteristics of the included product.
- This document is not intended to be used or replaced for specific users who wish to determine the suitability or reliability of this product.
- Users or those responsible for this product need to know correct usage and perform risk assessment in advance, and evaluation and testing related to specific applications or use of the product are required.
- Please inform us if there are errors or modifications needed in this document.
- To install and use this product, safety regulations of the relevant country and region must be strictly complied with.
- For safety reasons and compliance with documented system data, only the manufacturer is obliged to repair parts. Proper training is necessary to use the product in accordance with technical safety requirements.
- Failure to use the software of our hardware products accurately can lead to injuries, damage, or operational errors.

SIGNS ON THE EVSE

- Please read the manual carefully before installation, operation, and maintenance of the product. The following messages will appear throughout the document to warn of potential dangers or provide information for explaining procedures.

Warnings and Dangers

	This is a safety prevention symbol. Caution: If these safety precautions are not followed, injuries or damage can occur.
	Hazard signs relate to high voltage matters. If the safety rules and instructions in this manual are not adhered to, death or serious injury could occur due to electric shock and burns.

Symbols

	Ground for field wiring.
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IMPORTANT SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS

WARNING

This manual contains important instructions for Models (EVD350DL-PN+EVP175NK-NN) that shall be followed during installation, operation and maintenance of the unit.

- 1 Read all the instructions before using this product.
- 2 This device should be supervised when used around children.
- 3 Do not put fingers into the electric vehicle connector.
- 4 Do not use this product if the flexible power cord or EV cable is frayed, has broken insulation, or any other signs of damage
- 5 Do not use this product if the enclosure or the EV connector is broken, cracked, open, or shows any other indication of damage.
- 6 **First, read this:** This document includes important safety information. Before repairing or performing any maintenance in case of malfunction, read the entire manual first.
- 7 **Qualified personnel:** The charger must be installed, disassembled, or inspected by an electrician in accordance with the electrical regulations of the relevant area. The information in this manual does not alleviate the reader's responsibility for local safety regulations and standard regulations.
- 8 **Electric shock accident:** There can be a potential risk of fatal electric shock accidents. Inspection of the product's interior must be performed exclusively by a certified electrician.
- 9 **Do not modify:** Do not arbitrarily modify the charger. Doing so will void the warranty period and could result in a fatal electric shock or fire.

INSTRUCTIONS PERTAINING TO A RISK OF FIRE OR ELECTRIC SHOCK

- To prevent the risk of fire or electric shock accidents, please read and follow these safety precautions and operating procedures carefully.
- There is a risk of electric shock. Do not connect the electric vehicle and the charger before the inspection. Just turning off the charger does not reduce the risk.
- Do not touch the non-insulated parts of the output connector. There could be a serious risk of electric shock.
- Do not use a connector with exposed damaged wires or a damaged connector. Replace all damaged parts with new ones before operation.
- Do not disassemble the charger. Have it inspected by a certified technician. Incorrect assembly can cause an explosion, electric shock, or fire.
- Never use the charger if the vehicle's inlet or charger connector is wet.
- Do not install or operate with wet hands. There is a risk of electric shock.
- Cut off both the DC and AC power before opening the charger's case. Contact with electrically live parts of the charger can lead to electric shock accidents, serious injuries, or even death.
- Perform grounding work according to national electrical safety standards and local electrical safety standards. Not grounding properly can lead to fatal electric shock accidents.

 CAUTION

- Ensure the charger connector is free from water, humidity, or foreign substances.
- Do not place the charger near flammable materials during use. Keep it away from carpets and cluttered workspaces.
- Blocking the air inlet may cause the charger to overheat.
- Educate children to prevent them from playing with the device.
- Users are responsible for adhering to national and local electrical safety standards in the area where the device is installed.
- Do not connect or disconnect the connector while charging. Doing so damages the connector, and may damage the charger or cause the battery to explode.
- Do not operate the charger with the panel removed or the door open.
- If the charger is dropped, suffered a severe shock or any other type of damage, do not operate it. Call a service manager.
- In dusty environments, more frequent maintenance is required for maximum device lifespan and optimal performance.
- Do not use the charger during heavy rain or lightning.
- **Electric shock accident**: There is a risk of electric shock. Hazardous electrical energy is stored in the capacitor. Even if the electric supply to the charger is cut off, do not open the charger case for at least 5 minutes after disconnection.
- Ensure that the power supply to the charger is off before proceeding with charger maintenance procedures.

WARNING

- **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.

MAINTENANCE INSTRUCTIONS

- The maintenance that the user or the manager of the product can do is only clean the exterior of the product, and other maintenance must be done by qualified service personnel.
- Do not apply high-pressure water jets during cleaning. Water can leak into the product.
- The product disassembly is not applicable to maintenance that users can do.

MOVING AND STORAGE INSTRUCTIONS

EVD350DL-PN + EVP175NK-NN + EVP175NK-NN

For maximum performance, please read the following instructions.

Apply

This charger is designed to be used only as an electric vehicle charging device. Do not use it to charge other types of batteries.

Storage

Before installing and powering the charger, ensure that the product is stored in a clean and dry environment at a temperature of -40 °C to 70 °C (-40 °F to 158 °F). The charger must always be stored upright in a box during cargo loading. This protects the charger from dust and scratches. The charger must be stored in a protected location to avoid damage. Do not stack other items on top of it.

Transportation And Delivery

Take care when transporting the product with a forklift or pallet jack. Ensure the forklift's forks are sufficiently inserted inside the pallet to prevent accidents during transportation.

CHARGER SPECIFICATIONS

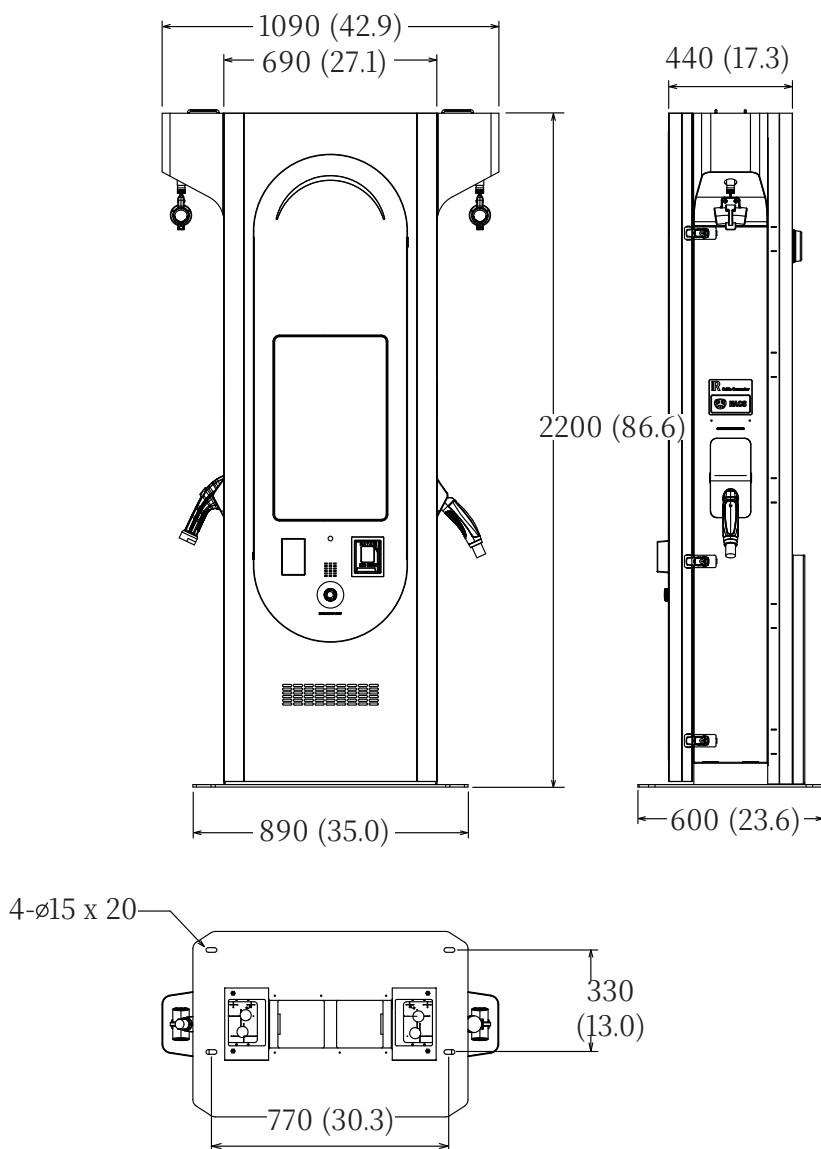
Model		EVD350DL-PN + EVP175NK-NN + EVP175NK-NN				
Category		Dispenser (EVD350DL-PN)			Power Cabinet (EVP175NK-NN)	
Size (Width x Height x Depth) (mm) (inches)		1,090 x 2,180 x 690 (42.9 x 86.6 x 25.1)			780 x 2,000 x 988 (30.7 x 78.7 x 38.8)	
Weight (kg) (lbs)		300 (661.4)			403 (888.4)	
AC Input	Voltage	-			3-phase 3-wire system (480 V) 1-phase 2-wire system (277 V)	
	Frequency	-			60 Hz	
	Power Factor	-			0.96	
DC Output	Max Voltage	200 Vdc~1,000 Vdc			-	
	Max Current	Max. 500 Adc			-	
	Max Capacity	350 kW(@ 800 Vdc)/ 200 kW(@ 400 Vdc)			-	
DC Output - Output voltage and current by temperature						
- Single Charge Table (A)						
Temp. Voltage	-35 °C (-31 °F)	-25 °C (-13 °F)	35 °C (95 °F)	40 °C (104 °F)	45 °C (113 °F)	50 °C (122 °F)
200 V	360 A	500 A	500 A	500 A	500 A	500 A
400 V	360 A	500 A	500 A	500 A	500 A	500 A
600 V	320 A	500 A	500 A	440 A	340 A	280 A
800 V	160 A	436 A	436 A	320 A	250 A	210 A
1000 V	316 A	350 A	350 A	280 A	220 A	180 A
- Dual Charge Table (A)						
Temp. Voltage	-35 °C (-31 °F)	-25 °C (-13 °F)	35 °C (95 °F)	40 °C (104 °F)	45 °C (113 °F)	50 °C (122 °F)
200 V	180 A	350 A	350 A	320 A	290 A	270 A
400 V	180 A	350 A	350 A	320 A	290 A	270 A
600 V	160 A	290 A	290 A	220 A	170 A	140 A
800 V	80 A	218 A	218 A	160 A	125 A	105 A
1000 V	158 A	175 A	175 A	140 A	110 A	90 A

Model		EVD350DL-PN + EVP175NK-NN + EVP175NK-NN		
Efficiency		95% or higher		
IP Rating		IP 55 (Enclosure)		
Operating Temperature		-35 °C ~ 50 °C (-31 °F to 122 °F)		
Operating Humidity		< Rh95 % (Non-condensing conditions)		
Storage Temperature		-40 °C~ 70 °C (-40 °F to 158 °F)		
Storage Humidity		< Rh95 % (Non-condensing conditions)		
Protection Features		Over Voltage Protection, Reverse Voltage Protection, Circuit Breaker In Case Of Over Current, Over Temperature Protection, Flooding Protection, Door Open Sensing, Emergency Switch		
User Authentication / Payment		RFID, QR, Credit Card		
Display Device	60.5 cm (23.8 inches) Touchscreen	• Charging Power • Elapsed time • Remaining Time	• Fault Details • Charge Status (SoC)	-
	Charging Status LED Indicator	• StandBy: Blue • Charging: Green Dimming • Fully Charged: Green Dimming • Error: Red Dimming		-
Charge Type	Format	UL2202		
	Connector (1CH)	CCS1 (Combo1)		
	Connector (2CH)	NACS		
Voice Guidance	Speaker	Audio output (5 W)		
Certification		UL/cUL, FCC Part 15 Class A		

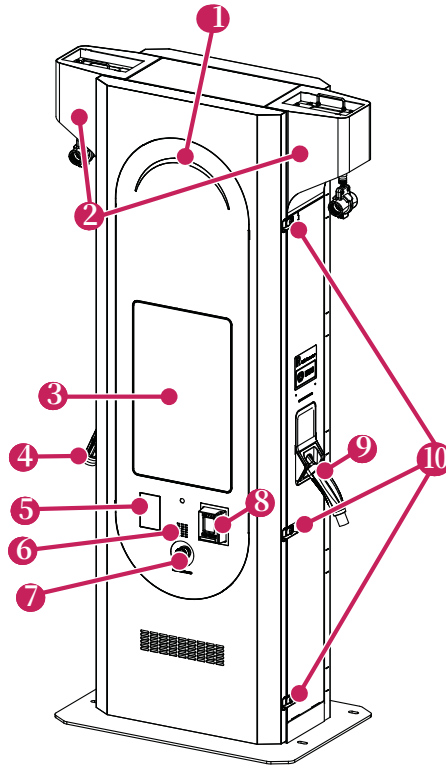
MECHANICAL CHARACTERISTICS

Dispenser Size

(Unit : mm (inches))



Dispenser Exterior

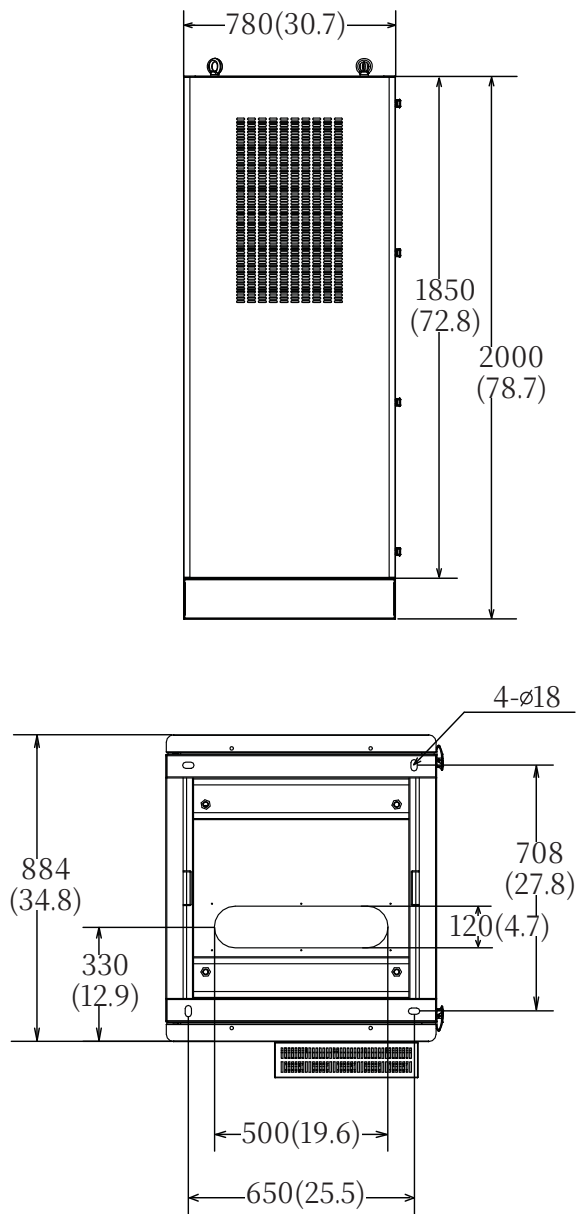


- ❶ Charging Status LED
- ❷ Retractor
- ❸ 60 cm (23.6 inches) touch screen
- ❹ CCS Connector
- ❺ RFID Module
- ❻ Speaker
- ❼ Emergency Stop Switch
- ❽ Card Reader
- ❾ NACS Connector
- ❿ Locking

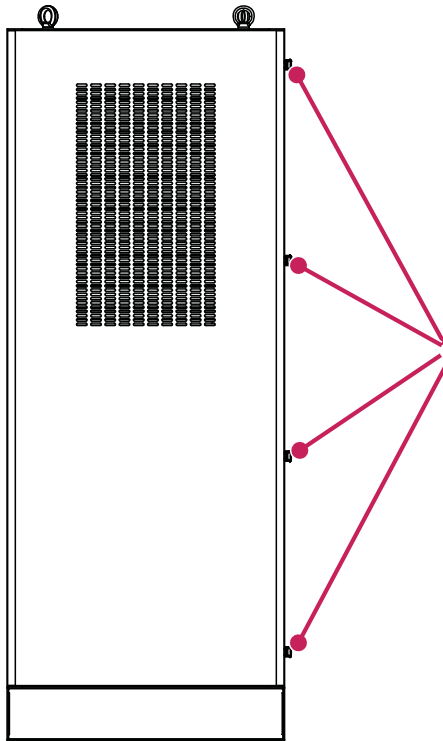
Power Cabinet Size

ENGLISH

[Unit: mm (inches)]



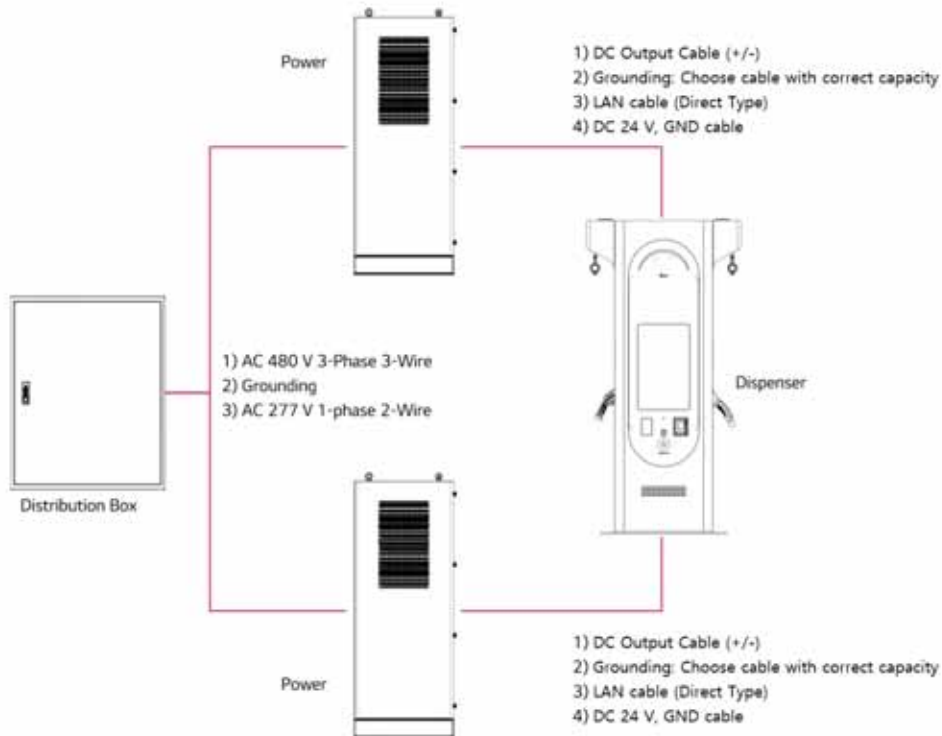
Power Cabinet Exterior



 Locking

Combination Of Dispenser And Power Cabinet Connection

1 Dispenser 175 kW / 2 Power Cabinet 175 kW Connection



! NOTE

- The LAN cable is not for network communication but for CAN communication and emergency stop signal transmission between the Power Cabinet and dispenser.

ASSEMBLY INSTRUCTIONS



Caution!

- Install the charger on a non-flammable pad (concrete, stone, brick, etc.) at least 100 mm (3.9 inches) above ground level. (See the diagram below)
- Do not expose the charger to rain, high temperatures, dust, corrosive gases, flammable substances or explosive gases.
- When removing packaging wrap, take care not to damage the product with a knife (or sharp tool).
- During installation, make sure to remove the simple manual attached inside.

Installation Location

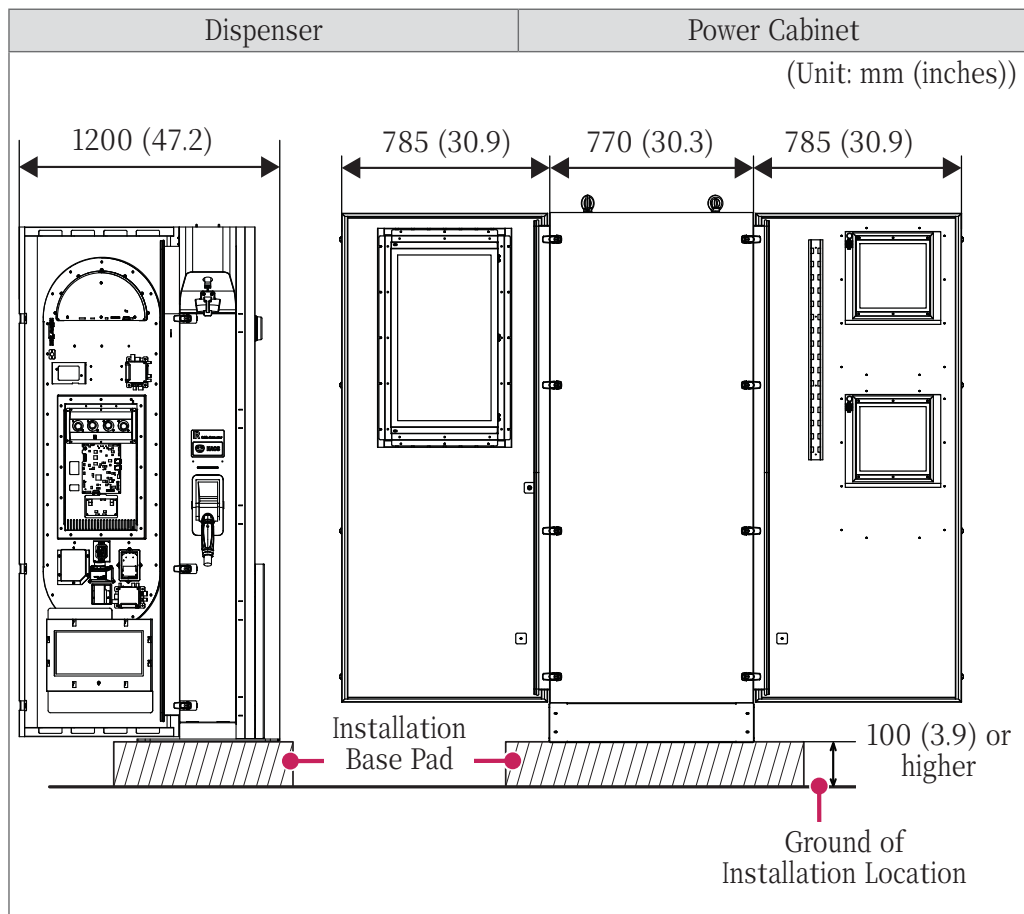
- For optimal performance and maximum lifespan, choose your installation location carefully. Operational lifespan and performance are affected by the location of the charger.
- Choose a dry area with good ventilation.
- Place the product approximately 30 cm (11.8 inches) away from the wall for adequate ventilation.
- To reduce the risk of fire, install the charger on a non-combustible surface made of concrete, stone, brick, or iron.
- Do not block the front of the charger.
- The rear surface of the power cabinet is hot during operation, so install the back of the power cabinet in close to the wall or make a separate wall so that user cannot contact it.

Mounting Method

- Power cabinets and dispensers that are used fixedly in one location must be safely and firmly fixed to that location.
- Bolts, screws, or other components used to secure equipment must be separate from those used to secure components of the device to the frame, base, or panel. Once these bolts, screws, or other parts are disassembled, they must be able to be moved without any tools.

! NOTE

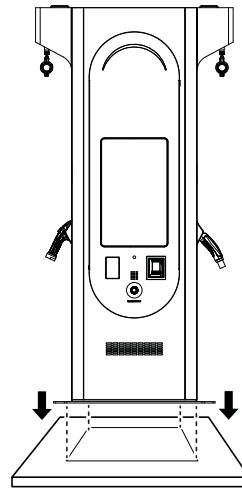
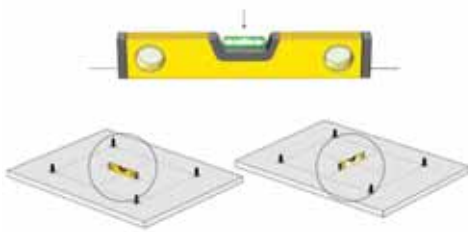
- Ensure space for door opening between the dispenser and Power Cabinet. (See the dimensions in the diagram below)



Installation Process (Dispenser)

Make sure to secure the charger to the concrete floor as follows.

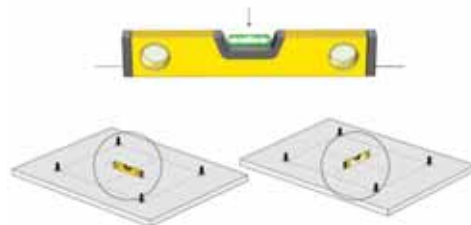
- 1 Align the channel base.
- 2 Align the dispenser with the base frame and secure the charger to the base frame with 4 x M12 nuts and washers.



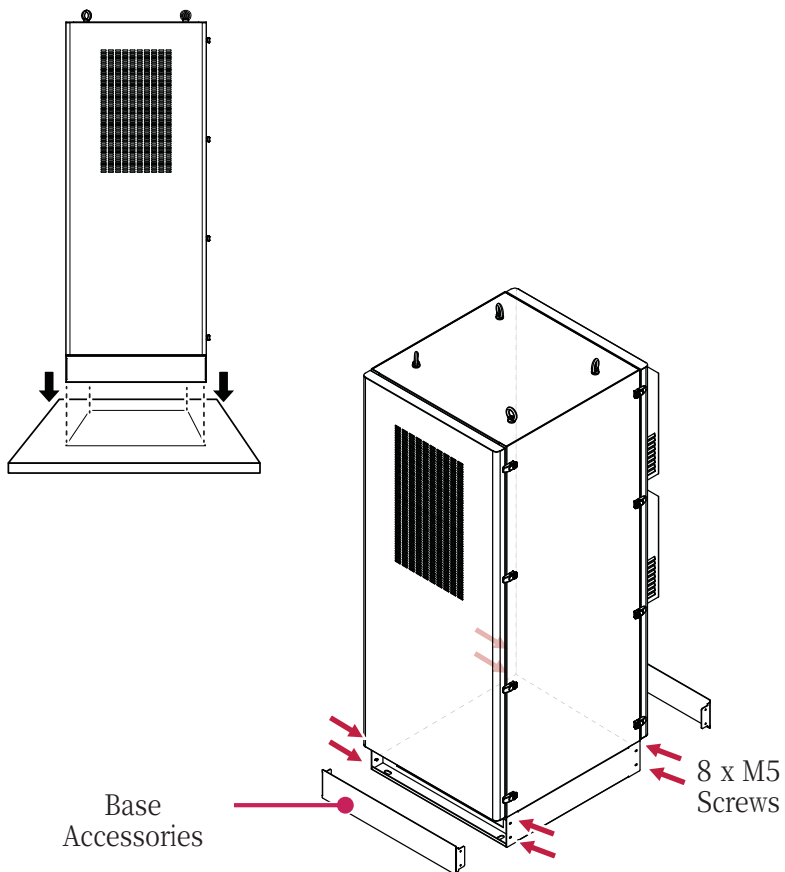
Installation Process (Power Cabinet)

Make sure to secure the charger to the concrete floor as follows.

- 1 Align the channel base.



- 2 Align the charger (with stand) with the base frame and secure the charger to the base frame with 4 x M16 nuts and washers.



External Wiring Procedure

Connect the wiring of the Power Cabinet according to the following procedure.

- 1 Ensure the AC power device's breaker (MCCB or ELCB) is turned off.
- 2 Ensure the AC input is 0 V.
- 3 Remove the plastic cover from the power circuit breaker.
- 4 Connect the AC input wire conductor to the input connection terminal.
- 5 Connect the grounding conductor to the connection terminal.
- 6 For IP55 compliance, use waterproof paste on input wires coming into the bottom of the charger.
- 7 Do not forget to cover behind the circuit breaker with a plastic cover.

! NOTE

- For charger installation, the cross-sectional area of the input wires must be at least 600 kcmil (304 mm²) for the Power Cabinet and 900 kcmil (456 mm²) for the dispenser.

Grounding Work

This product must be grounded in accordance with the regulations and laws of the relevant region to a permanent wiring system or equipment grounding conductor.



Improper connection of the grounding conductor can result in the risk of electric shock.

Electrical Network Type

Available Electrical network type

Electrical network type	Voltage	Picture
WYE Network	3-phase 3-wire 480 VAC $\pm$ 10 % 1-phase 2-wire 277 VAC $\pm$ 10 %	

! NOTE

- The AC input power cable is not included with the charger.
- The cable specifications should be determined based on the distance between the distribution panel and the charger, according to the conditions of the installation work.
- The disconnect switch should be installed inside the distribution panel of the installation location.
- For charger installation, the cross-sectional area of the ground wire must be at least 250 kcmil (126.7 mm²).

Wiring Separation

- 3-phase wires and 1-phase wires inputs must enter different entrances to the power cabinet inlet.
- The conductors and parts of different circuits are separated by a minimum of 6.4 mm (0.2 inches).
- The minimum length of the bottom inlet wire must be 527.4 mm (20.7 inches).
- The field wiring and factory wiring are separated by a SUS cover in dispenser.

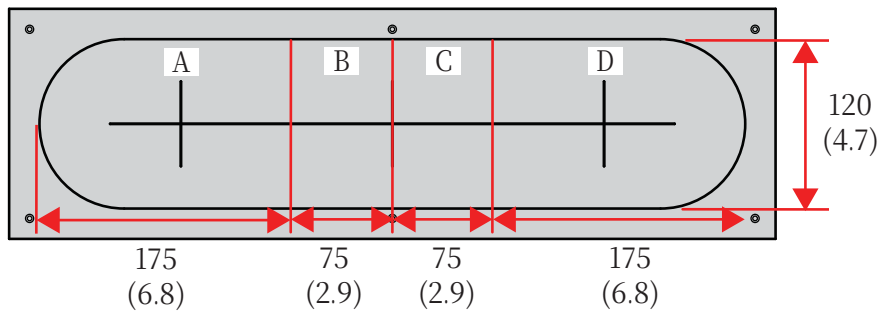
Power Cabinet details

Each cable must be installed separately according to the area.

Power Cabinet base inlet size

A: DC+/- Cables B: 24V & LAN Cables C: PE Cable D: AC Cables.

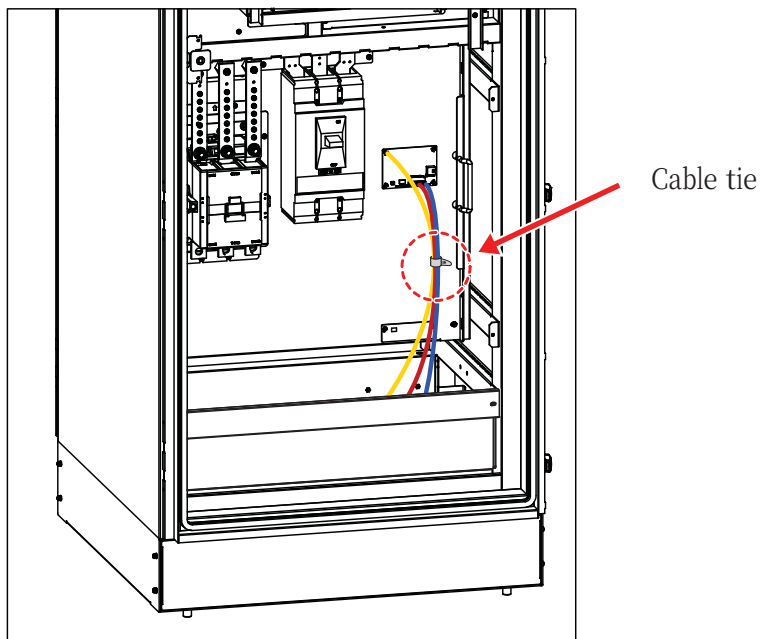
(Unit: mm (inches))



The 24V & LAN cables must be wired by securing them to the front side bracket with a cable tie.

Please refer to the figure below for more information.

The remaining cables, AC, DC and PE cables, must be installed in each location in a straight line.

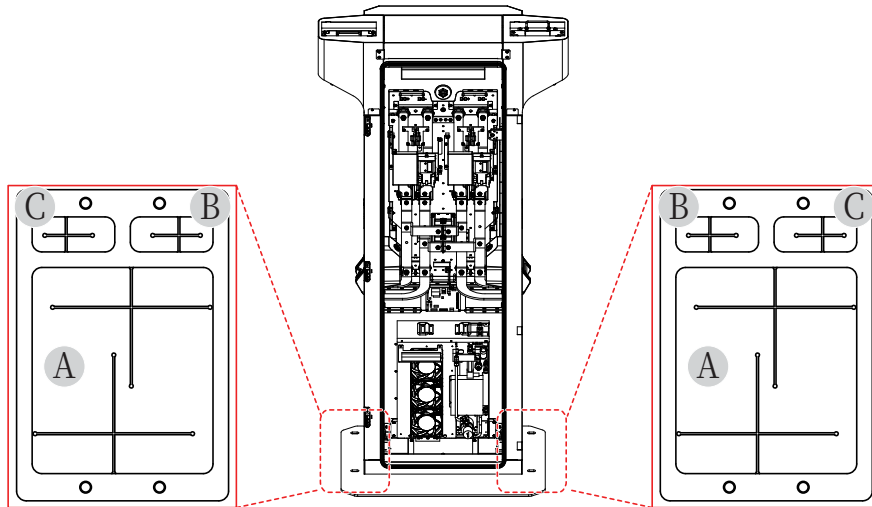


Dispenser details

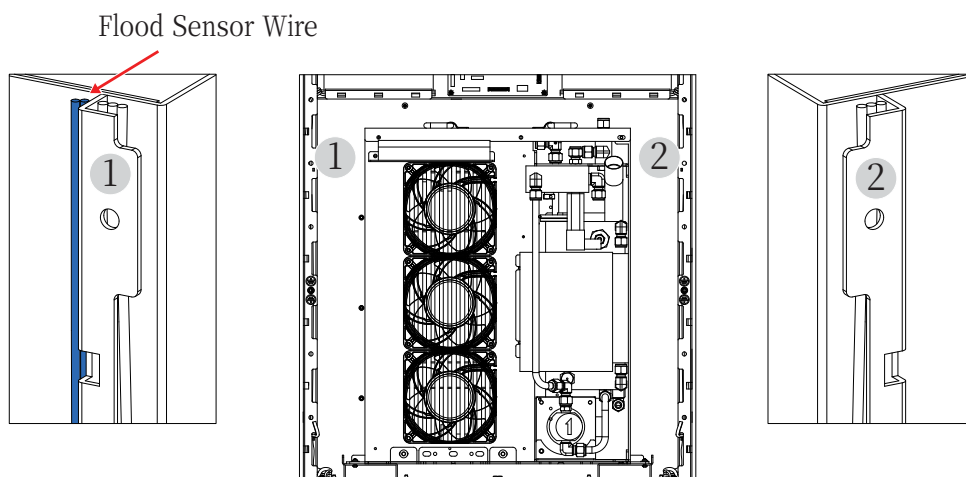
Each cable must be installed separately according to the area.

Dispenser base inlet size

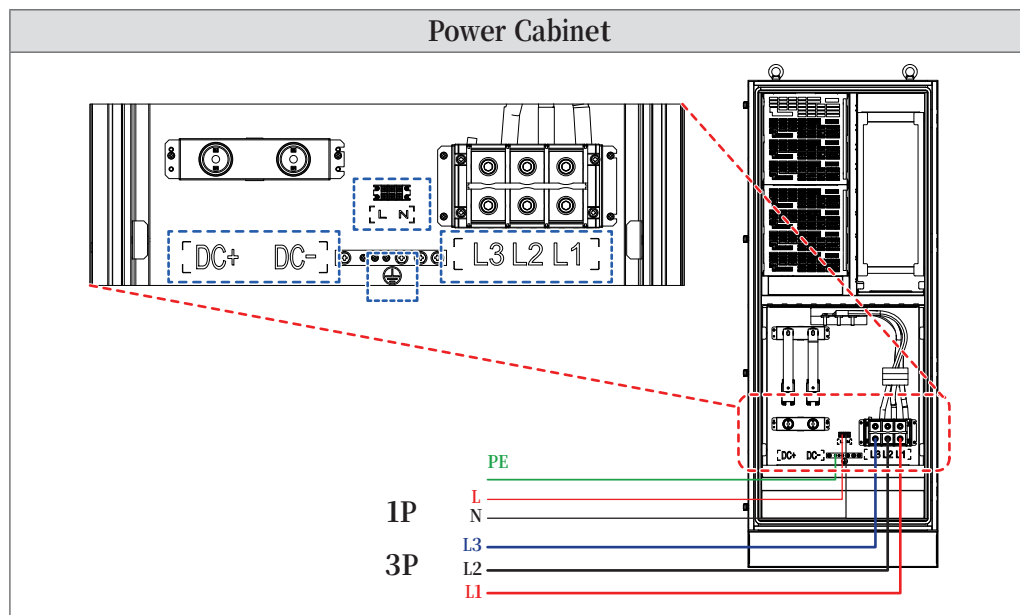
A: DC+/- Cables B: 24V & LAN Cables C: PE Cable.



Install the 24V & LAN cable to the left side of bracket (No.2) using cable ties. (Tie it closely to the left so that it does not come into contact with the water detect sensor wire)



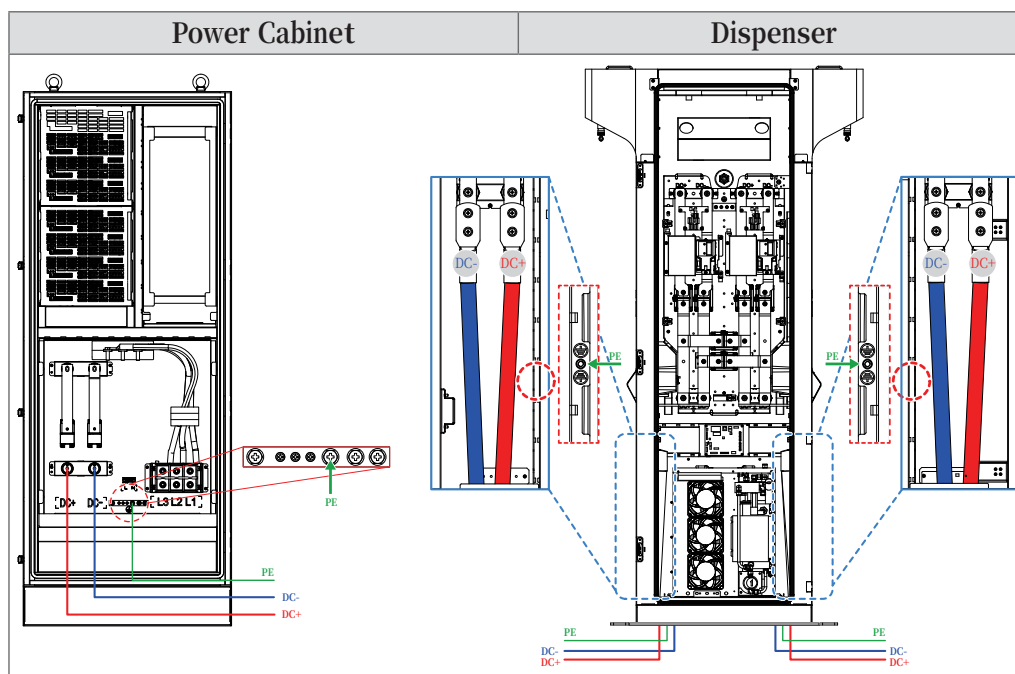
Wiring Power Cabinet



- Field Wiring Conductor : Use Copper Conductors Only. (Temperature rating : 90 °C (194 °F))
- Field Wiring Cable : Water-protective Cable.
- Pressure terminal Connector.

Parameter	L1/L2/L3	L/N	PE
Wire Size for the terminal block plug	600 Kcmil	AWG 14	250 Kcmil
Stud Size for the terminal block plug	12 mm (0.4 inches)	4 mm (0.1 inches)	8 mm (0.3 inches)
Material	Oxygen Free Copper	Oxygen Free Copper	Oxygen Free Copper
Manufacturer	JEONO	JEONO	JEONO
Type	JOR300-12	JOF 464	JOR-150-8
Shape	Circular Type	Circular Type	Circular Type
Tightening Torque	221 lbfIn / 255 kgf.cm / 25 N.m	10.4 lbfIn / 12 kgf.cm / 1.2 N.m	266 lbfIn / 307 kgf.cm / 30.03 N.m

Method of Wiring between Power Cabinet and Dispenser



! NOTE

- Field Wiring Conductor : Use Copper Conductors Only. (Temperature rating : 90 °C (194 °F))
- Field Wiring Cable : Water-protective Cable.
- Pressure terminal Connector.

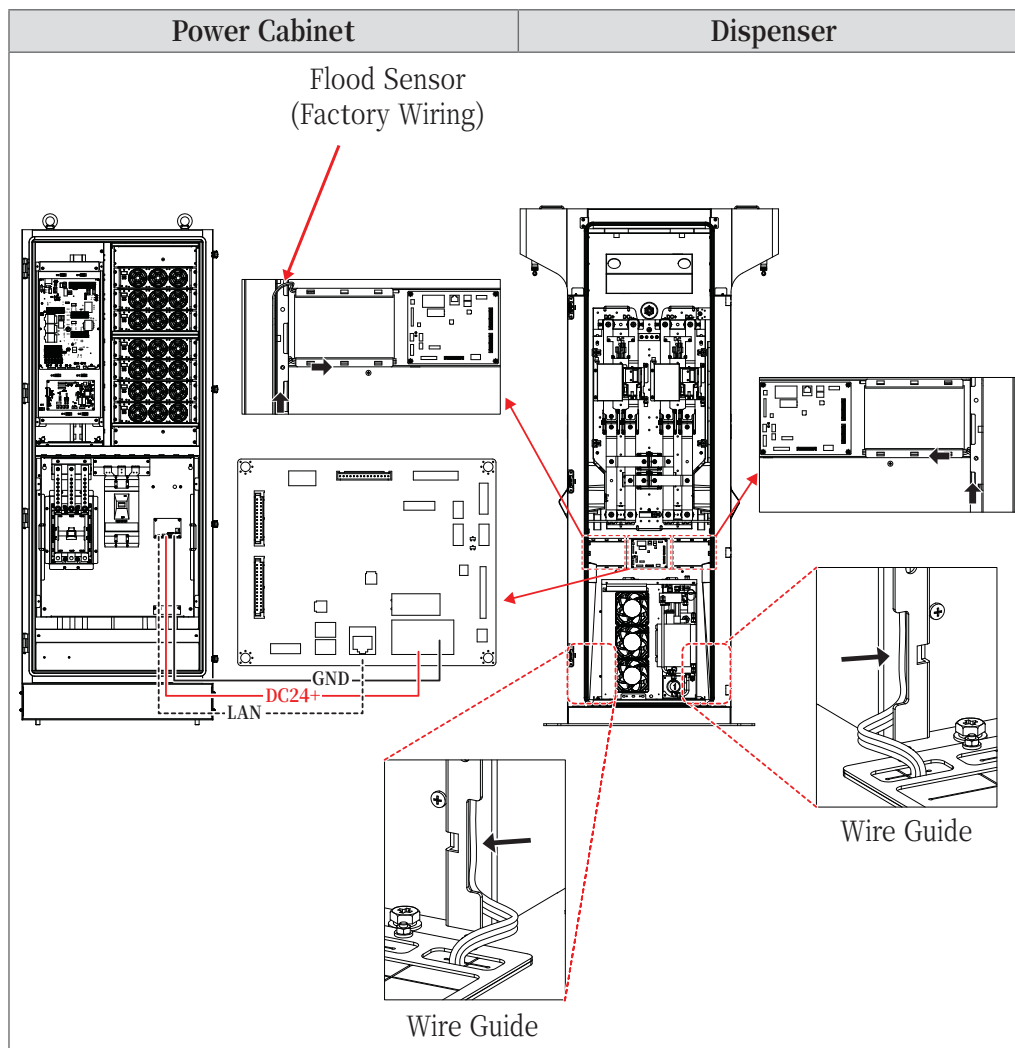
Parameter	DC + / -	PE
Wire Size for the terminal block plug	1000 kcmil	250 Kcmil
Stud Size for the terminal block plug	10 mm (0.3 inches)	8 mm (0.3 inches)
Material	Oxygen Free Copper	Oxygen Free Copper
Manufacturer	JEONO	JEONO
Type	JOCT 0217-XX12 ¹⁾	JOR-150-8
Terminal Shape	Circular Type	Circular Type
Tightening Torque	452 lbf.In / 520 kgf.cm / 51 N.m	266 lbf.In / 307 kgf.cm / 30.03 N.m

! NOTE

¹⁾First "X" : Tongue Form (R : Round Type, S : Square Type)

Second "X" : Barrel Form (S : Standard Barrel Type, L : Long Barrel Type)

Low Voltage And Communication Wiring Method



! NOTE

- The LAN cable (Direct Type) is not for network communication.
- Field Wiring Conductor : Use Copper Conductors Only. (Temperature rating : 90 °C (194 °F))
- Field Wiring Cable : Water-protective Cable.
- Pressure terminal Connector.

Parameter	DC 24 V + / GND
Wire Size for the terminal block plug	AWG 8
Stud Size for the terminal block plug	6 mm (0.2 inches)
Material	Oxygen Free Copper
Manufacturer	JEONO
Type	JOPF 465
Shape	Y Type
Tightening Torque	26 lbfIn / 30 kgf.cm / 3 N.m

OPERATING INSTRUCTIONS



Caution!

To prevent electric shock, do not touch any uninsulated parts of the DC output connector, battery connector, or battery terminals. Do not use the connector if there are damaged or corroded parts. Using a damaged or defective connector can lead to overheating or the risk of electric shock.

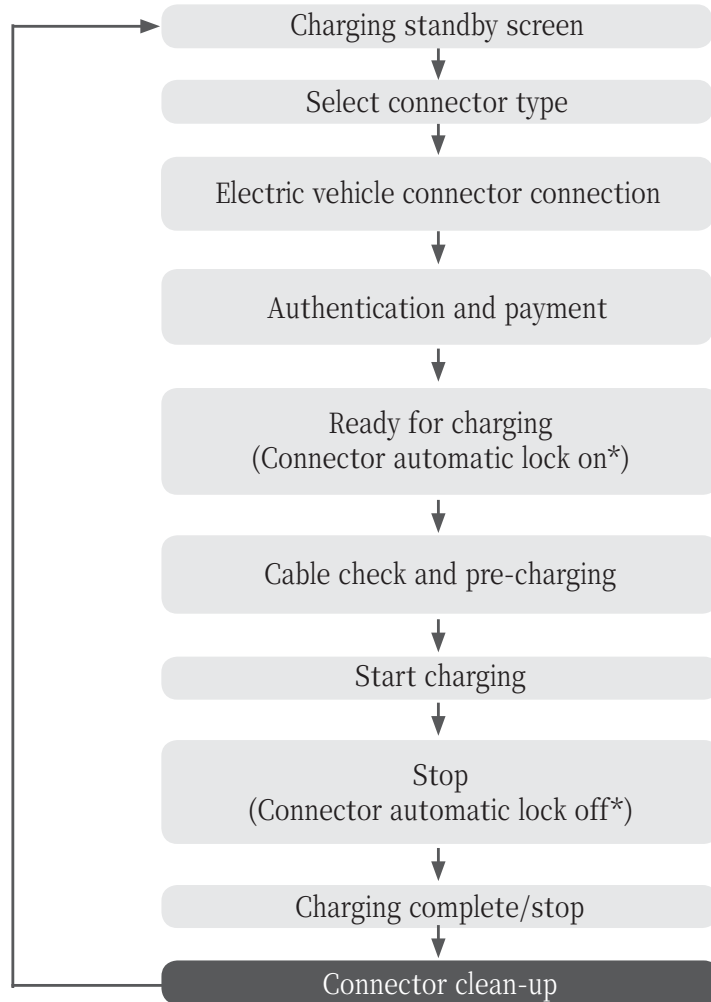
The product is designed to prevent electrical shock, fire and injury to the user, such as electrical parts covers, locking of doors, and emergency switches.

If there is an emergency, stop charging and press the emergency switch on the front of the dispenser.

Charging Precautions

Please check that installation has been completed in the order specified in this manual. Failure to do so can result in personal injury or damage to the charger.

Charging Operation Procedure



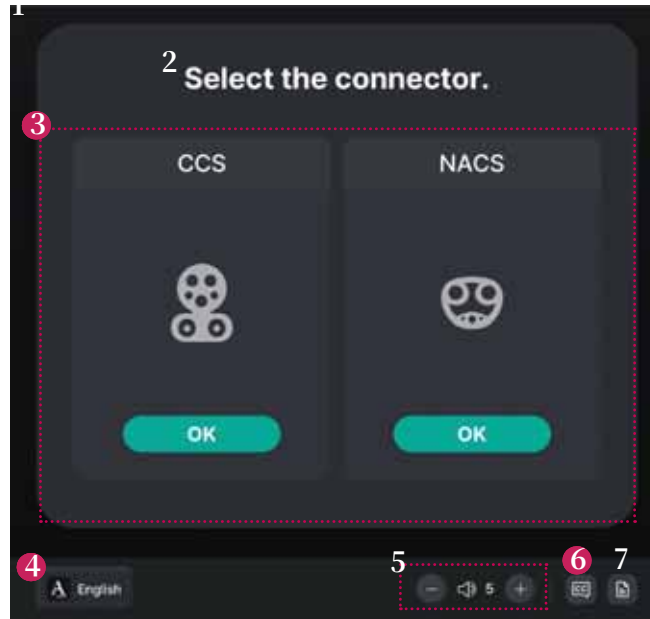
* : The automatic lock/release of the connector is controlled by the vehicle (whether this is supported varies depending on the model of the vehicle)

Common Screen Configuration

In the default standby state screen, the following information is displayed.



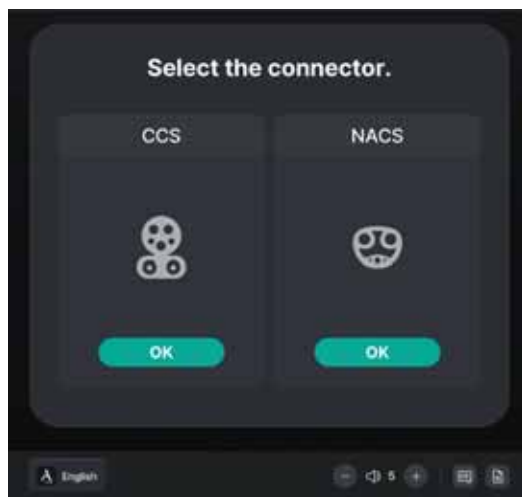
- ❶ The operating company's logo is displayed.
- ❷ The customer service number is displayed.
- ❸ The charger, internet connection status, credit card terminal status, and RFID card reader status are displayed. They are displayed in green (normal) and red (abnormal) colors.
- ❹ The charger number is displayed.
- ❺ The advertisements or animations are shown.
- ❻ The notifications are displayed.



- ❶ It's the area displaying the payment and charging process.
- ❷ The screen title is displayed.
- ❸ The screens relevant to each step are displayed.
- ❹ The currently set language is displayed, and you can change the settings to another language.
- ❺ You can adjust the volume.
- ❻ You can turn on or off subtitles for advertising videos.
- ❼ You can check device information.

Charging Process

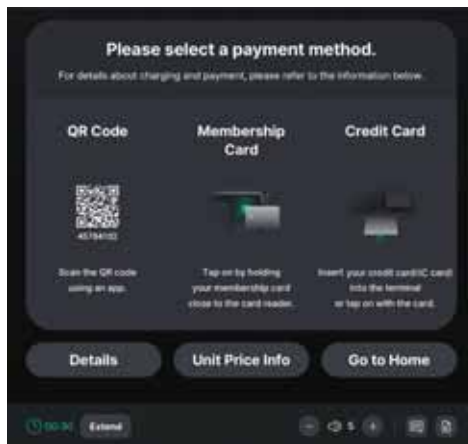
- 1 Select a connector type.
 - CCS
 - NACS



- 2 Connect the connector.



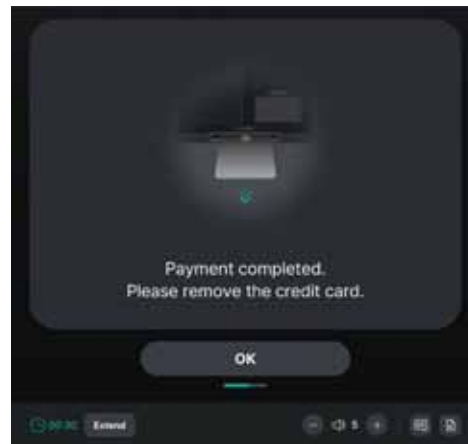
- 3 Proceed with payment using the QR code, your membership card or credit card.
(QR code payment support availability and payment method may vary depending on the CPO.)



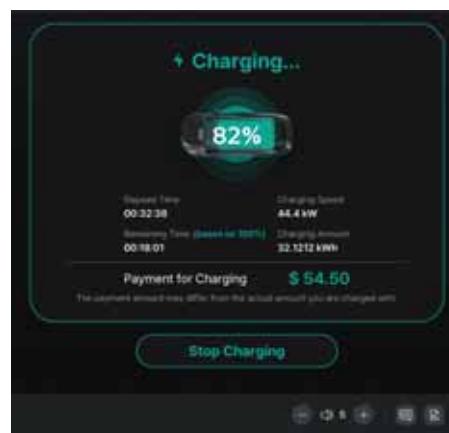
1) Membership card



2) Credit card

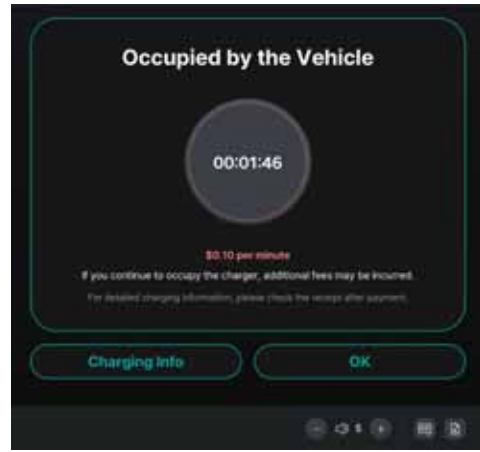


- 4 Proceed with charging. Displays elapsed time, remaining time, charging speed, charging amount, and charging fee.

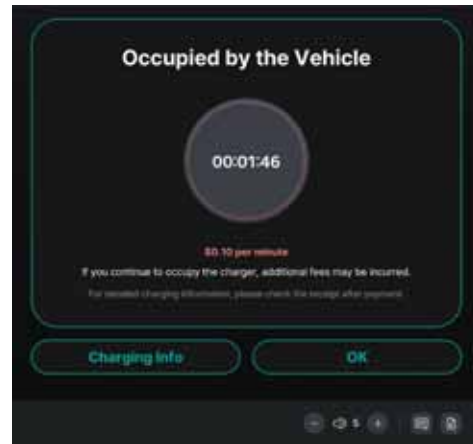


- 5 At the end of charging, displays the charging rate, elapsed time, charging amount, charging fee, etc. Occupancy charges may apply if you do not move your vehicle after charging has ended.

1) Membership card



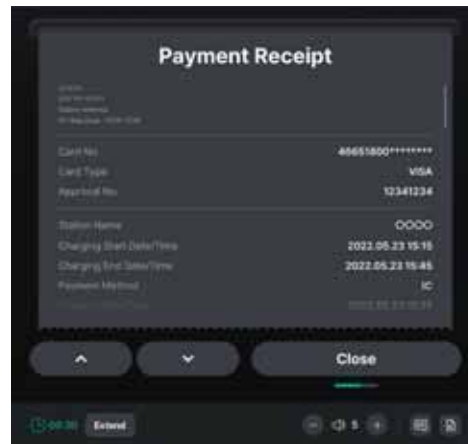
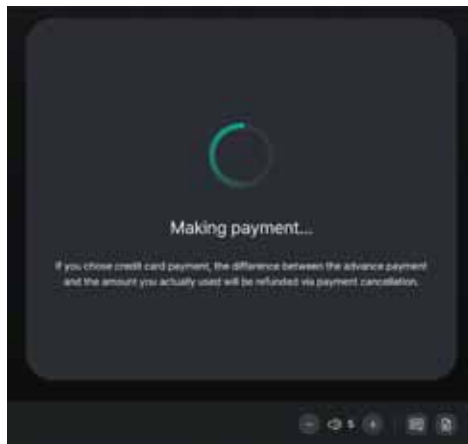
2) Credit card



! NOTE

- The charger displays the information provided by the vehicle as it is. The problem with different charging rate(%) values may be due to different signal values from the vehicle.

- 6 Displays a receipt after payment is processed.



Error Screen

When a failure occurs, the details of the failure are displayed and the charger attempts to recover automatically.



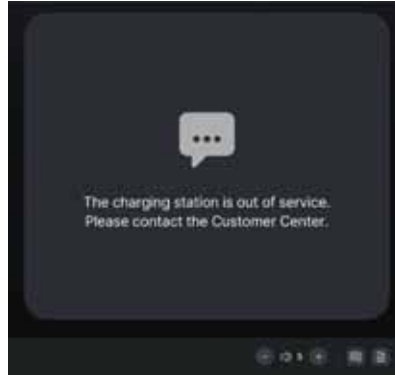
Emergency Stop Screen

When you press the emergency stop button on the front of the charger, displays the emergency stop screen. If the emergency stop is lifted, automatic recovery will be attempted.



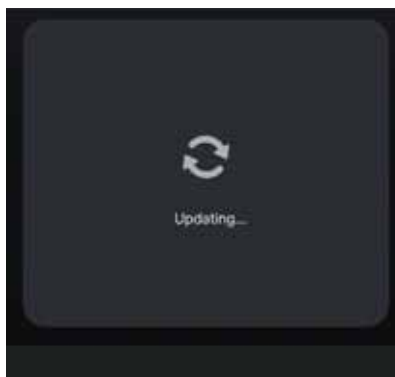
Operation Stop (Availability Change) Screen

This is the screen displayed during a temporary stop in operation due to operation policy. Operation stop and resumption are possible through remote control of the charging control.



System Update Screen

This is the screen when updating the system.



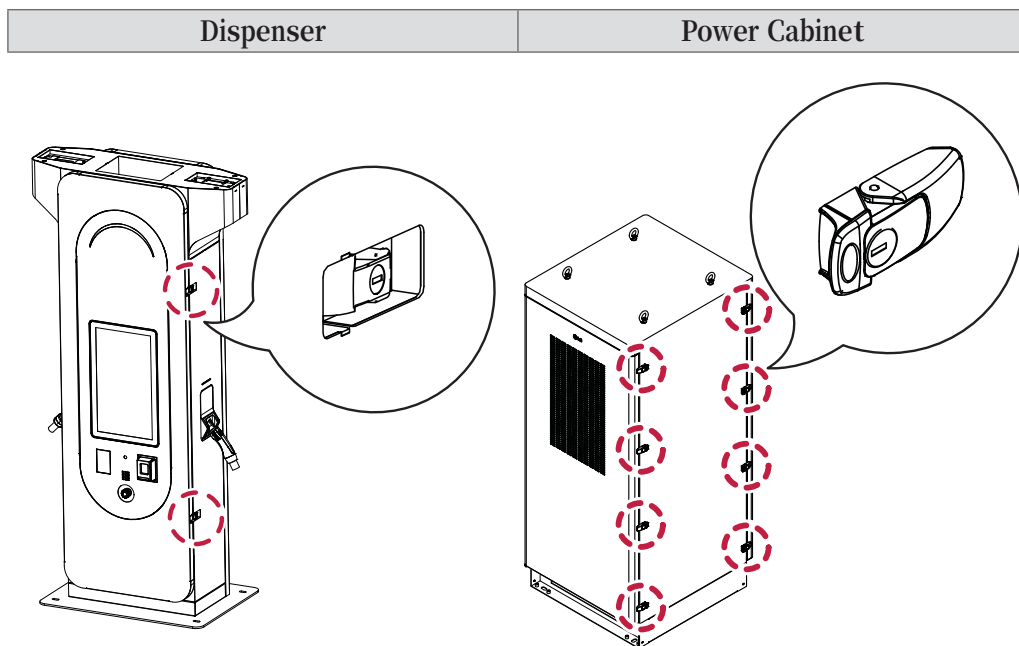
! NOTE

- Never turn off the power while the system update is in progress.

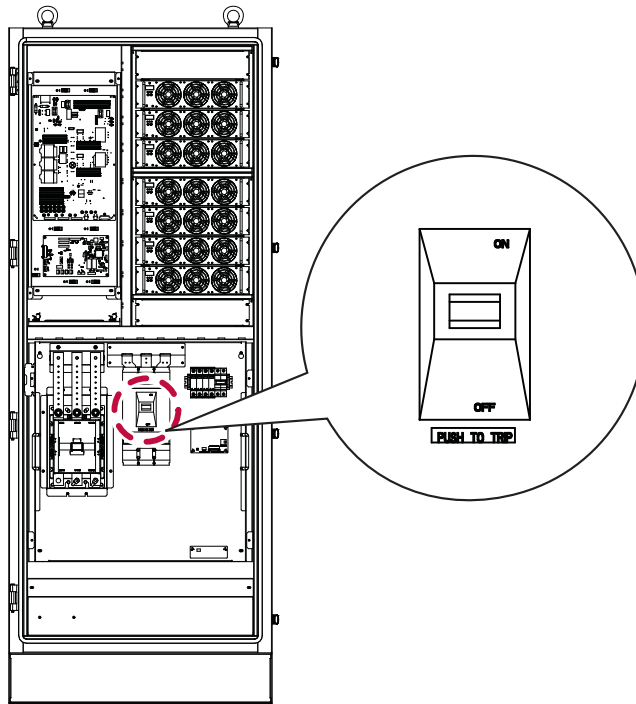
Pre-commissioning Test

1 Front Door Opening

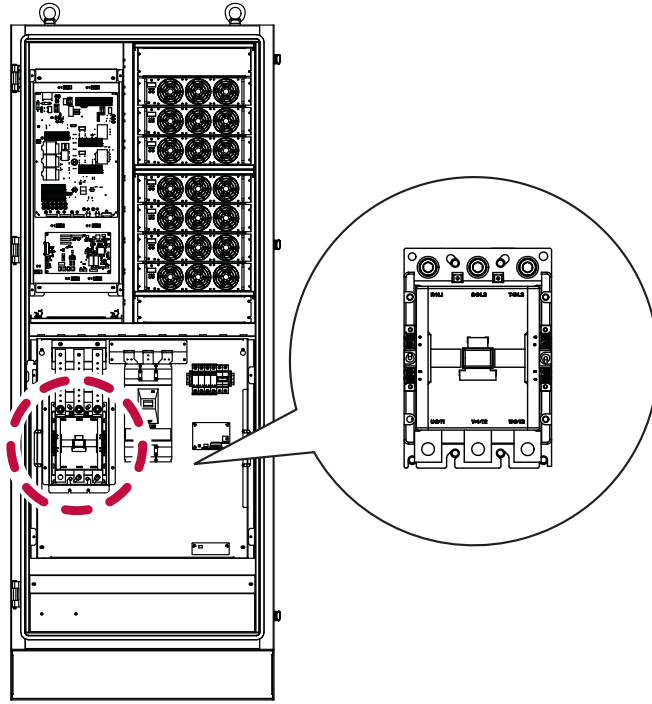
- Unlock the locking mechanism using the dedicated key. (Four for dispenser, Sixteen for Power Cabinet)



- 2 Power Cabinet Control Power Cut-off Device ON
- Turn on the control power cut-off device at the bottom center.



- 3 Power Cabinet Main Circuit Breaker ON
- Turn on the main power cut-off device on the bottom left.



- 4 Front Door Closing
- Once all the steps above are completed, close the front door for safety before starting to charge.

FAULT CODES

Error Codes	Description	Course of Action
2101	Output Overvoltage Detected	Charger manufacturer confirmation needed
2201	Output Overcurrent Detected	Charger manufacturer confirmation needed
2301	Output DC Ground Fault	Charger manufacturer confirmation needed
2401/2402	Output Relay Fault	Charger manufacturer confirmation needed
2501	Output Connector Lock Failure	Vehicle and connector inspections needed
3103	Vehicle Battery Voltage Status Error	Vehicle inspection required
3203	Vehicle Battery Current Deviation Detected	Vehicle inspection required
3601	Vehicle Battery Temperature Error	Vehicle inspection required
3602	CCS Connector Overtemperature	Charger manufacturer confirmation needed
3603	NACS Connector Overtemperature	Charger manufacturer confirmation needed
3604	Chiller System Error	Charger manufacturer confirmation needed
3801	Charging System Incompatibility	Vehicle inspection required
3901	Vehicle Shift Position Error	Check the vehicle gear park mode status
4001	Vehicle Charging System Error	Vehicle inspection required
5104	PLC Communication Error	Disconnect and reconnect the connector to retry charging
5105	PLC Ground Fault	Charger manufacturer confirmation needed
5113	I2C Communication Error (Lighting)	Charger manufacturer confirmation needed
5114	I2C Communication Error (GunSensor)	Charger manufacturer confirmation needed
5201	Power Meter Communication Error	Charger manufacturer confirmation needed
5323	Proximity Pilot Error	Disconnect and reconnect the connector to retry charging

Error Codes	Description	Course of Action
6201~6207	Power Module Error	Charger manufacturer confirmation needed
6301	Dispenser Insulation Test Error	Disconnect and reconnect the connector to retry charging
6601	MC(Magnetic Contact) 1 Error	Charger manufacturer confirmation needed
6701	Dispenser Impact Detected	Charger manufacturer confirmation needed
6702	Door Open Detected	Charger manufacturer confirmation needed
6703	Dispenser Immersion Sensor Detected	Charger manufacturer confirmation needed
6802	Power Bank Communication Error	Charger manufacturer confirmation needed
6803	Power Bank Door Open Detected	Charger manufacturer confirmation needed
6805	Power Bank Immersion Sensor Detected	Charger manufacturer confirmation needed
6806	Power Bank Impact Detected	Charger manufacturer confirmation needed
6807	Power Bank Overtemperature Detected	Charger manufacturer confirmation needed
8101	Dispenser Sensor 1 Overtemperature	Charger manufacturer confirmation needed
8102	Dispenser Sensor 2 Overtemperature	Charger manufacturer confirmation needed
9101	Emergency Button Pressed	Check whether the emergency switch is pressed
9201	Other Error	-
10000	RFID Communication Error	Charger manufacturer confirmation needed
10002	Control Board Communication Error	Charger manufacturer confirmation needed
10004	LCD FAN Error	Charger manufacturer confirmation needed

ADVERTISEMENT AREA SUPPORTED MULTIMEDIA FORMATS

VIDEO

File Extensions	A/V	Codec
.avi	Video	H.264/AVC
	Audio	MP3
.mp4	Video	H.264/AVC, H.265/HEVC
	Audio	AAC, MP3

- Max Resolution and Frames Per Second: 1920 x 1080, 30 frames/second

CERTIFICATION

FCC

CERTIFICATION	DESCRIPTION
FCC	Federal Communications Commission (FCC) Statement 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. This 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. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. <u>FCC Notice</u> This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: 1) this device may not cause harmful interference, and 2) this device must accept any interference received, including interference that may cause undesired operation. <u>FCC Caution</u> Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. <u>FCC RF Radiation Exposure Statement:</u> [For having wireless function (WLAN, Bluetooth,...)] This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment should be installed and operated with minimum distance 20 cm (7.8 inches) between the antenna and your body. Users must follow the specific operating instructions for satisfying RF exposure compliance.

IC

ENGLISH

CERTIFICATION	DESCRIPTION
IC	Industry Canada Statement (For Canada) [For having wireless function (WLAN, Bluetooth,...)] This device contains licence-exempt transmitter(s)/ receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions: (1) This device may not cause interference. (2) This device must accept any interference, including interference that may cause undesired operation of the device. CAN ICES (A) / NMB (A) (Pour le Canada) [Pour la fonction sans fil (WLAN, Bluetooth, etc.)] L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique 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; (2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement. CAN ICES-003(A) / NMB-003(A) IC Radiation Exposure Statement (For Canada) [For having wireless function (WLAN, Bluetooth,...)] This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm(7.8 inches) between the antenna & your body. (Pour le Canada) [Pour la fonction sans fil (WLAN, Bluetooth, etc.)] Cet appareil est conforme aux limites d'exposition aux rayonnements d'Industrie Canada pour un environnement non contrôlé. Cet appareil doit être installé de façon à garder une distance minimale de 20 cm (7,8 po) entre la source de rayonnement et votre corps. REMARQUE : LE FABRICANT N'EST PAS RESPONSABLE DES INTERFÉRENCES RADIOÉLECTRIQUES CAUSÉES PAR DES MODIFICATIONS NON AUTORISÉES APPORTÉES À CET APPAREIL. DE TELLES MODIFICATIONS POURRAIENT ANNULER L'AUTORISATION ACCORDÉE À L'UTILISATEUR DE FAIRE FONCTIONNER L'APPAREIL.

US only



WARNING: Cancer and Reproductive Harm—
www.P65Warnings.ca.gov.

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LG Electronics will also provide open source code to you on CD-ROM for a charge covering the cost of performing such distribution (such as the cost of media, shipping, and handling) upon email request to opensource@lge.com.

This offer is valid to anyone in receipt of this information for a period of three years after our last shipment of this product.



Supplier's Declaration of Conformity

Trade Name	LG
Responsible Party	LG Electronics USA, Inc.
Address	111 Sylvan Avenue, North Building, Englewood Cliffs, NJ 07632
E-mail	lg.environmental@lge.com

Please refer to the label attached to the product as it contains the information necessary for service.

Model

Serial number

Temporary noise is normal when powering ON or OFF this device.