

We provide convenient charging services

EV Charger User Manual



V1.0

Important Safety Instructions Related To Risk Of fire or Electric Shock

WARNING: When working with electrical products, basic precautions should always be followed.

This manual contains important instructions for ECA-NC4803S, ECA-NC4003, ECA-NC3203S models, needs to be observed during installing, operating and maintaining.

1. Please read all instructions before using this product.
2. Use of this device around children should be done under supervision.
3. Do not stick your fingers into the EV connector.
4. Do not use this product if the flexible power cord or scooter cable is frayed, has torn insulation, or has any other damage.
5. Do not use this product if the housing or EV connector is broken, cracked, open, or otherwise damaged.
6. Indicate the ambient temperature grade: -30°C to 50°C.
7. Note the following or something similar: "To reduce the risk of fire, connect to a circuit providing the following function". @ampere's maximum branch circuit overcurrent protection shall be in accordance with the National Electrical Code ANSI/NFPA 70, and Canadian Electrical Code Part 1 C22.1.
8. Disconnecting Means. For equipment rated more than 60 amperes or more than 150 volts to ground, the disconnecting means shall be provided and installed in a readily accessible location. The disconnecting means shall be lockable open in accordance with 110.25.

Model	Required Service Panel Breaker
ECA-NC3203S	40 A
ECA-NC4003S	50 A
ECA-NC4803S	60 A

SAVE THESE INSTRUCTIONS

Instructions de sécurité importantes relatives au risque d'incendie ou de choc électrique

AVERTISSEMENT : Lors de l'utilisation de produits électriques, des précautions de base doivent toujours être prises. Ce manuel contient des instructions importantes pour les modèles ECA-NC4803S, ECA-NC4003S, ECA-NC3203S, qui doivent être respectées lors de l'installation, de l'utilisation et de l'entretien.

- 1) Veuillez lire toutes les instructions avant d'utiliser ce produit.
2. l'utilisation de cet appareil en présence d'enfants doit se faire sous surveillance.
- 3 Ne mettez pas vos doigts dans le connecteur EV.
4. n'utilisez pas ce produit si le cordon d'alimentation flexible ou le câble du scooter est effiloché, si l'isolation est déchirée ou s'il est endommagé de quelque manière que ce soit.
5. n'utilisez pas ce produit si le boîtier ou le connecteur EV est cassé, fissuré, ouvert ou autrement endommagé.
- 6 Indiquer la température ambiante : -30°C à 50°C.
7. notez la mention suivante ou une mention similaire : "Pour réduire le risque d'incendie, branchez l'appareil sur un circuit assurant la fonction suivante". La protection maximale contre les surintensités du circuit de dérivation de @ampere doit être conforme au Code national de l'électricité ANSI/NFPA 70 et au Code canadien de l'électricité, partie 1 C22.1.NFPA 70, and Canadian Electrical Code Part 1 C22.1.
8. moyens de déconnexion. Pour les appareils d'une intensité nominale de plus de 60 ampères ou de plus de 150 volts à la terre, le dispositif de déconnexion doit être fourni et installé dans un endroit facilement accessible. Le dispositif de déconnexion doit être verrouillable et ouvert conformément à l'article 110.25.

Langue de sélection des boutons tactiles.

Modèle	Required Service Panel Breaker Requise Service Panel Breaker
ECA-NC3203S	40 A
ECA-NC4003S	50 A
ECA-NC4803S	60 A

Disjoncteur du panneau de service requis

Instrucciones de seguridad importantes relacionadas con el riesgo de incendio o descarga eléctrica

ADVERTENCIA: Al trabajar con productos eléctricos, deben seguirse siempre las precauciones básicas.

Este manual contiene instrucciones importantes para los modelos ECA-NC4803S, ECA-NC4003S,

ECA-NC3203S, que deben observarse durante la instalación, el funcionamiento y el mantenimiento.

1. Lea todas las instrucciones antes de utilizar este producto.

2. El uso de este aparato cerca de niños debe hacerse bajo supervisión.

3. No introduzca los dedos en el conector EV.

4. No utilice este producto si el cable de alimentación flexible o el cable del scooter están deshilachados, tienen el aislamiento roto o presentan cualquier otro daño.

5. No utilice este producto si la carcasa o el conector EV están rotos, agrietados, abiertos o presentan cualquier otro daño.

6. Indique el grado de temperatura ambiente: -30°C a 50°C.

7. Anote lo siguiente o algo similar: "Para reducir el riesgo de incendio, conecte a un circuito que cumpla la siguiente función". La protección máxima contra sobreintensidades del circuito derivado de @ampere deberá ser conforme al Código Eléctrico Nacional ANSI/NFPA 70, y al Código Eléctrico Canadiense Parte 1 C22.1.

8. Medios de desconexión. Para equipos de más de 60 amperios o más de 150 voltios a tierra, los medios de desconexión se proporcionarán e instalarán en un lugar fácilmente accesible. Los medios de desconexión deberán poder abrirse con llave de acuerdo con 110.25. Selección de idioma mediante botón táctil.

Modelo	Interruptor del panel de servicio requerido
ECA-NC3203S	40 A
ECA-NC4003S	50 A
ECA-NC4803S	60 A

GUARDE ESTAS INSTRUCCIONES

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1 Acronyms

S/N	Abbreviations	Description
1	EV IPHEV	Electric vehicle, which can be a BEV (battery electric vehicle) or a PHEV (plug-in hybrid electric vehicle)
2	EVSE	Electric Vehicle Supply Equipment
3	kW	Kilowatt
4	A	Ampere (unit of current)
5	V	Volts (voltage unit)
6	Hz	Hertz (unit of frequency)
7	RFID	Radio frequency identification

2 Safety Instructions

In this manual, the following warning labels and precautions are used in the AC EV Charger :

WARNING

For use with Electric Vehicles.

Ventilation Not Required.

To avoid a risk of fire or electric shock, do not use this device with an extension cord.

This device is intended only for charging vehicles not requiring ventilation during charging.

THE SUITABILITY OF THE USE OF FLEXIBLE CORD IN ACCORDANCE WITH CE CODE, PARTI

CAUTION

To reduce the risk of electric shock, Connect only to properly grounded outlets.

Do not use this product if there is any damage to the unit.

Risk of electric shock, do not remove cover or attempt to open the enclosure. No user serviceable Parts inside, Refer servicing to qualified service personnel.



AVERTISSEMENT

Pour utilisation avec des véhicules électriques

Aucune ventilation requise

Pour réduire le risque de choc électrique ou d'incendie, ne pas utiliser de rallonge avec cet appareil
Ce dispositif est destiné au chargement des véhicules ne nécessitant pas de ventilation au cours du chargement

LA PERTINENCE DE L'UTILISATION DE CORDONS FLEXIBLES SELON LE CODE CE, PREMIERE PARTIE.

ATTENTION

Pour réduire le risque de choc électrique, brancher sur une prise correctement mise à la terre
Ne pas utiliser ce produit si l'appareil est endommagé

Risque de choc électrique. Ne pas retirer le couvercle ni essayer d'ouvrir le boîtier. Aucune pièce interne réparable par l'utilisateur. Confier tout travail d'entretien ou de réparation à un technicien qualifié.



3 Standard

3.1 Safety Standard

UL 2594 UL 2231 UL 1998 UL991

3.2 Radio Frequency Standards

47CFR Part 15 (2020)

ANSI C63.4 (2014)

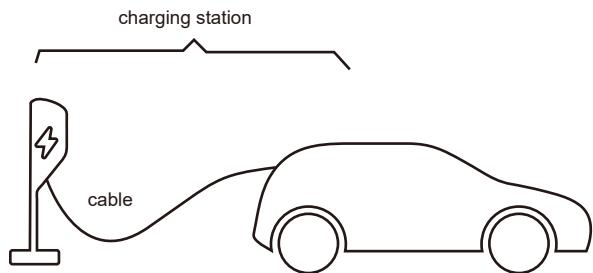
ICES-003 Issue 7: October 2020

3.3 Energy Star Standard

ENERGY STAR® Program Requirements for Electric Vehicle Supply Equipment (EVSE) Version 1.0, 1.1 and 1.2

3.4 Charging Connection

The charging connection method is shown in the figure below.



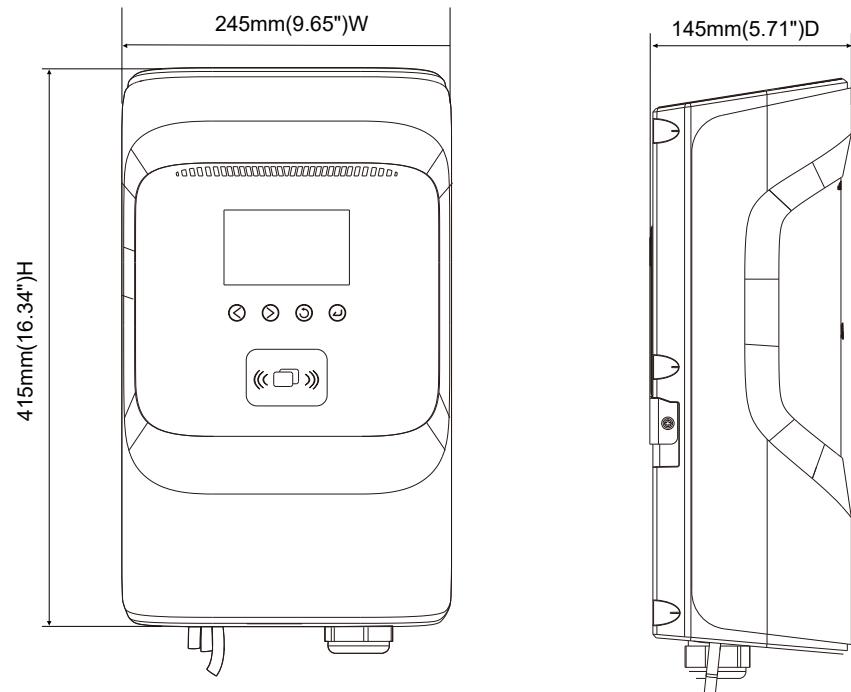
4 Product Information

4.1 Type

Welcome to our AC EVSE

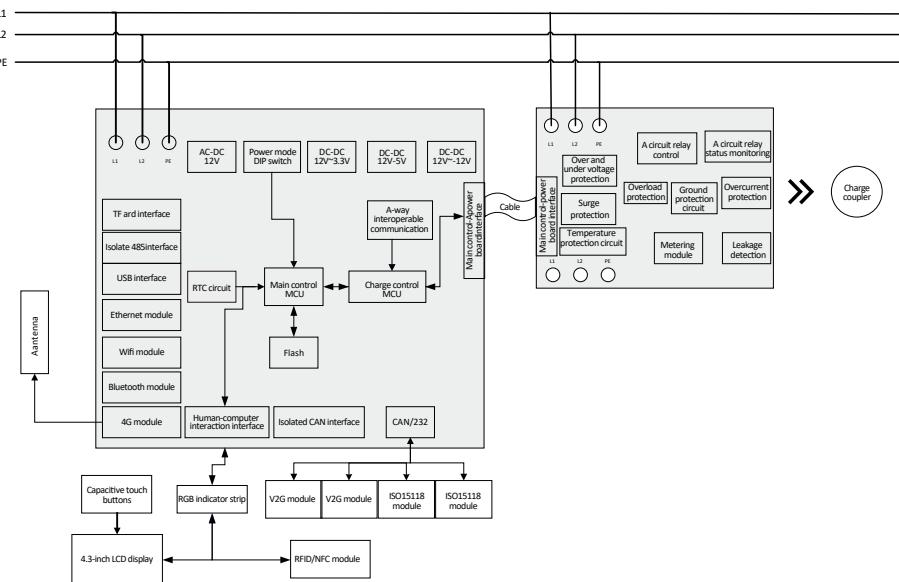
4.1.1 Shape and Size

The shape and size of the AC EVSE is shown in the figure below



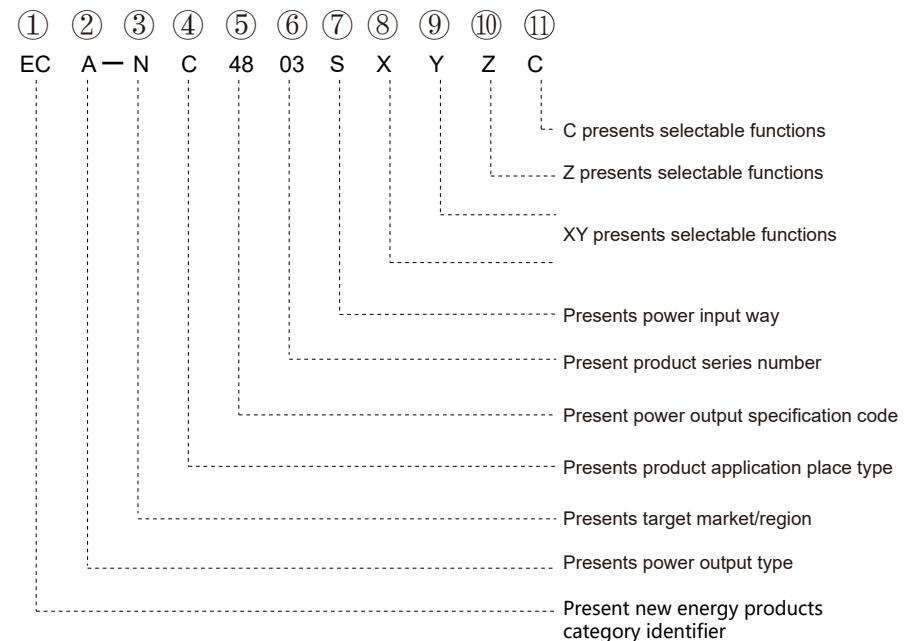
4.1.2 Block Diagram

The block diagram of EVSE is as follows



It is widely used in various household electric vehicle charging in North America, as well as parking lots, community garages and public electric vehicle charging places.

4.1.3. Model definition



Description of Model Number

1. Represent new energy products category identifier.

Products category	New energy electrical vehicle charger equipment	New energy storage equipment	New energy photovoltaic equipment
Code	EC	ES	EP

2. Represents power output type.

Power output type	AC Power	DC power	Multi-mode: AC & DC compatible
Code	A	D	M

3. Represents target market/region.

Market/Region	Europe	Americas	UK	China	Japan	Korea	Russia
Code	E	N	U	C	J	K	R

4. Represents target product application type.

Application type	Household/Home-use	Commerical- use	Multi-use: household &commercial
Code	H	C	M

5. Represents product power output specifications.

Power output	AC mode are marked by maximum output current		
	32A	40A	48A
Code	32	40	48

6. Represents the product series number and follow the below principle.

Upgrade from 01-99 according to product development plan.

7. Represents the supported power input methods.

Power input method	Single Phase	Three phases	Multi- input: Single-phase & three-phase co-existence
Code	S	T	M

8. Represents an additional communication function, in the range A-Z, which is defined as follows.

A	CAN+RS485+ISO15118 MOD+USB	B	CAN+RS485+USB
C	CAN+ISO15118 MOD+USB	D	RS485+ISO15118 MOD+USB
E	CAN+USB	F	RS485+USB
G	ISO15118 MOD+USB	H	USB

10. Represents is for the presence or absence of a touch key and track table, in the range 0-9, and is defined as follows.

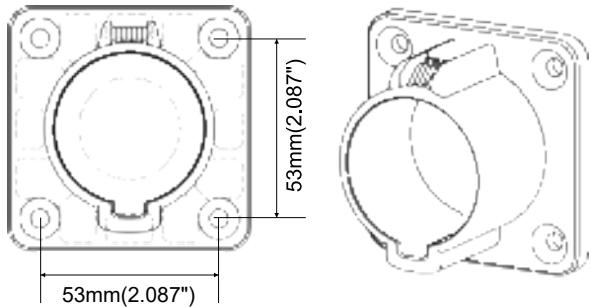
0	No touch buttons, no track meter
1	With touch keys with track gauge
2	No touch buttons, with track meter
3	With touch keys, no track meter

11. Represents the front shell colour, in the range 0 to 99, which is defined as follows.

0	RAL 7040	1	PT 021C
2	RAL 9007	3	RAL9010
4	PT 288UP	5	PT 5493UP
6	PT 147-4C	7	PT Black 2c

4.2 Empty Seat

- ▷ AC EVSE is equipped with an American standard car-side charging connector.
- ▷ When the EVSE is in standby mode, insert the car end charging connector into an empty seat to protect the car end charging connector.
- ▷ Use the mounting screws to fix this empty socket in place next to the EVSE.



4.3 Specification

RD01 American Standard AC Charging Post Series							
Category	Specifications & Parameters						Option
	Model	Rated input/output voltage	Rated input current	Rated output current	Max power	Charge Coupler	
Power Specification	CTX-C32-240-1	Level 2, 208/240VAC 60Hz	32A	32A	7.68kW	SAE J1772 TYPE1 /32A	Optional
	CTX-C40-240-1	Level 2, 208/240VAC 60Hz	40A	40A	9.6kW	SAE J1772 TYPE1 /40A	Optional
	CTX-C48-240-1	Level 2, 208/240VAC 60Hz	48A	48A	11.52kW	SAE J1772 TYPE1 /48A	Optional

Communication	Power Wring +B8:H30	Hardwired via pigtail : L1/L2/GND	
	4G cat.4		
	WiFi 2.4G		
	BLE 5.0		
	RFID		
	LAN (RJ-45)		
	USB(type A)		
	RS-485	Optional	
OCPP Version	CAN	Optional	
	OCPP 1.6J		
User Interface & Control	LCD Screen		
	Size:4.3-inch		
	/pixels resolution:800*480		
	262K colors		
	No touch function		
User Authentication	Capacitive touch buttons	Optional	
	Power Option Switch		
	Swipe card		
Meter	QR Code/APP		
	ISO 15118 (Plug & Play)	Optional	
	Guideway power Meter Build-in	Optional	
	On-board power meter		

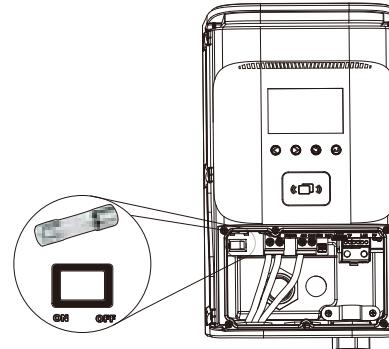
Power Management	Load Balancing:Operating Stations		Optional
Memory	Flash Rom (16M-byte)		
	TF card memory expansion (No TF card)		
RealTime clock	Supercapacitor		
	CCID20		
	Over Voltage Protection		
	Under Voltage Protection		
	Over-current protection		
Protection Function	Over Load Protection		
	Ground Protection		
	Over-temp Protection		
	Surge Protection	6 kV @ 3,000A.	
	Fault self-test,		
Environmental	Enclosure Protection	Type 4, IK10	
	Operating Temperature	-30 ~ 50 C	
	Storage Temperature	-40 ~ 75 C	
	Humidity	Up to 95%, non-condensing	
	Altitude	≤2000m	
	Cooling Method	Natural Cooling	

	Net Weight	14-16 lbs(32A)/ 19-20 lbs(40A)/ 22-23 lbs(48A)	
Mechanical	EV Charger	D145mm(5.71") * W245mm(9.65") * H415mm(16.34")	
	Cable Length	18 Ft or Customization	
Regulation	Safety Regulations	ETL (UL2231,UL2594,UL1998,UL991)	
	Metering & Billing	CTEP	
	Energy Efficiency	Energy Star	
	Wireless Certificate	FCC,IC	
Warranty		2 years	

5 Operate

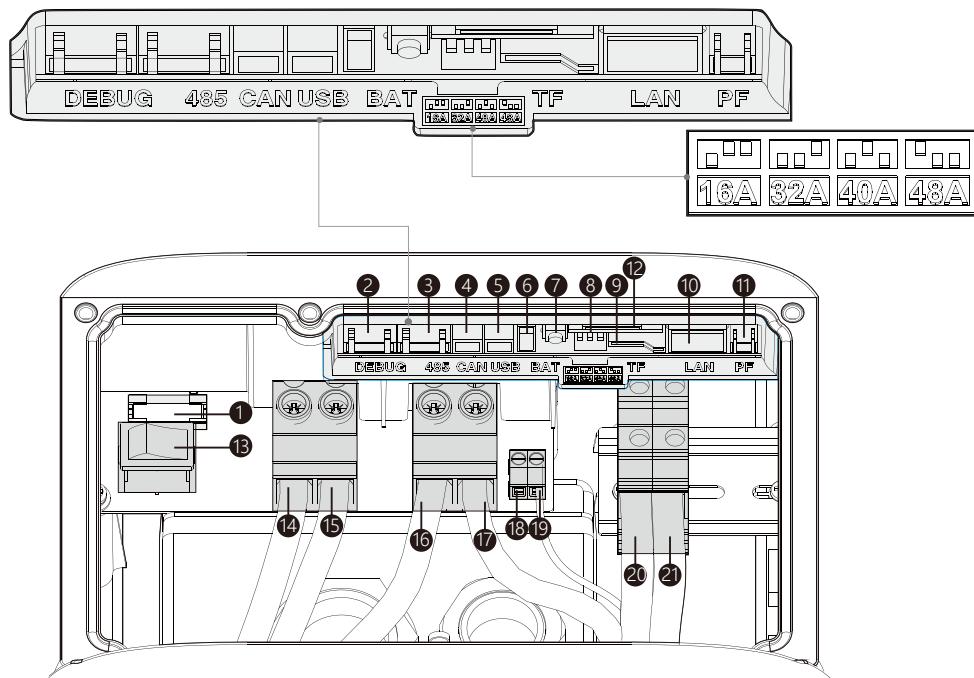
5.1. Switch

1. Check and make sure the mainboard power switch is off and that the fuse is there and installed. As shown below.



2. Turn off the power of this product, turn on the power switch of the mainboard; observe whether the boot interface of the product is normal.

5.2. About the Interface



Charging with dual pot version ECA-NC4803S updates the rated current according to the DIP switch status, no reboot required

16A	24A	32A	40A	48A	48A	48A	48A

Upstream Wiring Charging stations are considered continuous load devices (EVs draw maximum load for long durations); therefore, electrical branch circuits must be sized at 125% of the load for North American installations, in accordance with National Electric Code (NEC) requirements. (For other regions, refer to local code.) This means that for a maximum 48 A load at 208/240 V output to an electric vehicle, 60 A breakers are required.

Circuit breaker (amps)	Max output (amps)	Power output at 240 volts (kW)
60	48	11.5
50	40	9.6
40	32	7.6
30	24	5.7
20	16	3.8

NO	Name	functions	Specification
1	Fuse	Safety Protection	5*20, 250VAC, 10A
2	Debug serial port	Not open	
3	Download interface	Not open	
4	485 interface	Undeveloped	
5	CAN interface	Undeveloped	
6	USB interface	Undeveloped	
7	Reset button		
8	Dip switch Control	See picture 1 for setting method ,rated current setting	See picture 1 for setting method ,rated current setting
9	TF card holder	Undeveloped	Micro SD
10	Ethernet interface(RJ45)	Internet connection	100Mbps
11	PF pulse interface	Meter calibration	Optocoupler output, external pull-up resistor
12	SIM card interface	Internet connection	4G Nano SIM
13	Power switch	Power control	
14	Input L1	Power input	AC 208/240V 50/60Hz
15	Input L2	Power input	AC 208/240V 50/60Hz
16	Input GND	Power input	
17	Cable GND	Power output	
18	Reserved interface		
19	CP interface	Charging control guide	
20	Cable L2	Power output	Depending on input
21	Cable L1	Power output	Depending on input

6. Features

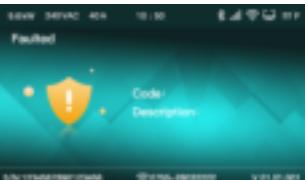
6.1 User Interface & Control

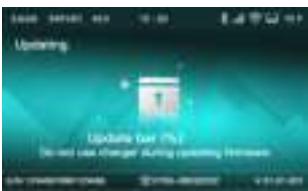
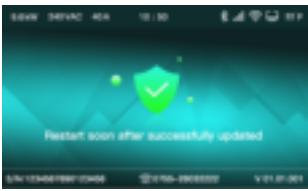
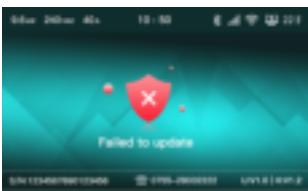
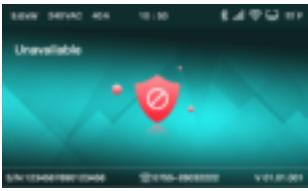
Take the ready state screen as an example to illustrate the meanings of common elements in the user interface interaction interface.



1. The electrical parameters are displayed in the upper left corner of the status bar, and the order from left to right is: charging power, voltage level, and rated current. The charging power is calculated by multiplying the grid voltage and the rated current. The voltage level is automatically detected as "208VAC" or "240VAC" when powering on. Rated current can be set by dial switch. For details on dial settings, please refer to the interface introduction and instructions.
2. The upper right corner of the status bar displays network communication parameters. From left to right, there are Bluetooth, 4G, WiFi, Ethernet and Fahrenheit icons in the charger. The Bluetooth icon only appears when a Bluetooth module is installed. If the 4G module is not installed, it is a gray low-light icon, and if the 4G module is installed normally, it is a white high-light icon. WiFi is a gray low-light icon if not connected, and a white high-light icon when WiFi is properly set up and successfully connected. Ethernet is a gray low-light icon if communication with the router is not established, and a white high-light icon when successfully established. The temperature inside the stake has a white highlighted icon, it's dynamic, and it's displayed in degrees Fahrenheit.
3. Status prompts vary as per different language and different status.
4. Language switching prompt is unique to the "Ready" screen. When you touch the button below, you can switch between English and Spanish. Currently, these are the only two languages available.
5. The main interface displays different content under each status.
6. Charging pile SN code - the unique code assigned at the time of delivery. The client can modify it through the server, but the uniqueness of the modification cannot be guaranteed.
7. After-sales service telephone.
8. Software Version No.

Status	Display Description	LED Description	Current Status Interactive Functions
Power on		No operation is recommended at this stage	No operation is recommended
Available		Green Always On	<ol style="list-style-type: none"> 1. Enter to the available page after the boot up finished; 2. Touch the button to switch language; 3. If there is no operation, the screen will dim automatically in 3 minutes; 4. Screen can be wake up through either of following ways: touch button, insert the coupler, scan the code, tap the card, or other platform inter-action
Start Charge (Insert the coupler and tap the card or app scan)		The green light is flashing fast.	<ol style="list-style-type: none"> 1. Start charging through RFID card, QR code scanning or APP, If charging coupler not plugged, it will notify for charging coupler plugging as shown left; 2. The interface will stay for 1 minute, if the user does not insert the plug within 1 minute, it will return to the standby mode, the waiting time can be modified in the remote server.
			<ol style="list-style-type: none"> 1. The user plugs in the coupler and jumps from standby to a page that prompts the user to initiate charging; 2. This state will wait for the user to initiate charging; 3. The user removes the charging coupler and returns to the standby page.

Charging coupler plugged, but car not ready		blue light slow flash	1. After inserting the coupler and starting charging, the S2 switch inside the car is not closed, and it is not ready for charging, will jump to the car not ready page; 2. Enter the charging page when the car is ready; 3. If you unplug the charging cable at this time, the battery will return to the standby page.			1. If an abnormality occurs during charging, enter the fault settlement page; 2. Recoverable faults: undervoltage, overvoltage, overtemperature, leakage, short circuit, overcurrent, ground fault, etc; 3. Non-recoverable faults: CP voltage abnormality, instrument failure, relay adhesion, abnormality of functional modules, etc; 4. Unplug the plug in this state, if the fault is not resolved, it will enter the fault prompt page; if the fault is resolved, it will return to the standby page.
Charging		Blue is always on	1. Enter the charging page after successfully starting charging; 2. Actively end charging in this state (tap card, APP, platform remote control), will jump to the settlement interface; 3. In this state, the tip of the coupler is loose, (pull out the plug), will jump to the abnormal settlement interface.	Settlement Fault		Unrecoverable fault: steady red Recoverable fault - slow flashing red
Complete		Purple is always on	1. After the charging is completed normally, enter the charging completion settlement page; 2. Unplug the plug and return to the standby screen.	Abnormal settlement		Purple slow flash 1. The plug is loose in the charging state, or is pulled out by external force to enter the settlement page of the connection and disconnection of the coupler head; 2. Hold for 1 minute and return to the standby page; 3. Re-plug the plug, you need to restart the charging process.
Fault		Unrecoverable fault: red is always on Recoverable fault - slow flashing red	1. If an abnormality occurs in the non-charging state, jump to the fault prompt page; 2. Recoverable faults: undervoltage, overvoltage, overtemperature, leakage, short circuit, overcurrent, ground fault; 3. Non-recoverable faults: CP voltage abnormality, instrument failure, relay adhesion; 4. If the fault is resolved, return to the interface before the fault was reported.	Reserved		Green slow flash 1. The user selects the electric pile in the APP, and enters the reserved page after operating the scheduled charging; 2. Only reserved users can start charging; 3. When non-re-served users start charging, it will prompt that the electric pile has been reserved; 4. After the scheduled time is exceeded, if the customer is not present for use, it will automatically return to the standby page.

System update		yellow slow flash	<ol style="list-style-type: none"> 1. Perform remote OTA in standby state, in this state, there will be a percentage figure to show upgrading process. Download the firmware until complete, then it will confirm and check the content of the upgrade package; 2. When the download is complete and the verification is successful, it will enter the upgrade success state; 3. During the download process, if the network is disconnected or the verification fails after the download is complete, it will enter to upgrade failure state; 4. After the upgrade is complete, the firmware version number in the bottom right corner will be updated.
System Update Succeeded		Yellow slow flash	<ol style="list-style-type: none"> 1. After the firmware OTA update is successful, jump to the upgrade success page; 2. After waiting for 10 seconds, turn on the power pile and restart.
System Update Failed		Yellow slow flash	<ol style="list-style-type: none"> 1. If the upgrade fails, enter the upgrade failure prompt page; 2. Wait for 10 seconds and return to the state before the firmware upgrade.
System Update Failed		Steady yellow	<ol style="list-style-type: none"> 1. In the standby state, will enter to out of service state when receive "stop use" command from the server; 2. Return to the standby state when receive "recover to use" command from server.

6.2 Configure WiFi Network (Currently no APP)

Internet configuration via WiFi and OCPP Authpass

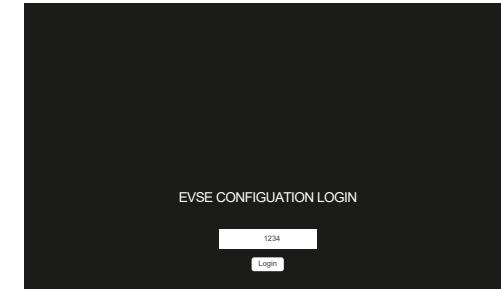
Take the laptop configuration charger parameters as an example, the introduction is as follows. (The method of setting parameters with a mobile phone is similar and will not be repeated).

■ Step 1: Connect to WiFi Hotspot.

Keep your laptop in a state where it can connect to a WIFI hotspot. Turn on the charger, find the hotspot named "ECA-NH", and connect to it without a password. (If you do not find a hotspot named "ECA-NH", please restart the power of the charging station.

■ Step 2: Log in to Settings.

Open a web browser, preferably Google Chrome or Microsoft Edge, and fill in the - IP address "192.168.4.1" in the browser's address bar. Press the Enter key to enter the page of EVSE CONFIGURATION LOGIN. (Note: Microsoft IE browser cannot visit).



■ Step 3: Configure Your EV Charger.

Fill in the default password from (PIN Code) the label on the panel charger. When you log in to this page for the first time, please change to a new login password. The new password can only be a 4-digit number. Fill in the name of the hotspot and the password of your WIFI router on the web page, click the "SAVE" button to save the settings, and click the "RESTART" button to restart the charging pile to make the settings take effect. Once it takes effect, the charging pile can be accessed through your WIFI router the Internet.

EVSE CONFIGURATION

Advanced Options	
Serial Number:	3885233376195
OCPP Version:	OCPP1.6-J
OCPP Server:	wss://centralsystem.ampup.io/ocpp
OCPP AuthPass:	0
Connect Alternative Server:	YES
New password:	Enter a new password of 1 to 9 characters
	Enter password again
Network Setting	
DHCP	On
Static IP:	192.168.8.100
Static Gateway:	192.168.8.1
Static Mask:	255.255.255.0
4G APN:	
4G USER:	
4G Password:	

User Options	
WiFi SSID:	Admin
WiFi Password:	12345678
Plug and Play:	Disable
Share Current:	0
Modbus Address:	0
Advanced Options	
Serial Number:	3885233376195
OCPP Version:	OCPP1.6-J
OCPP Server:	wss://centralsystem.ampup.io/ocpp
OCPP AuthPass:	0
Connect Alternative Server:	YES
New password:	Enter a new password of 1 to 9 characters
	Enter password again
Network Setting	
DHCP	On
Static IP:	192.168.8.100
Static Gateway:	192.168.8.1
Static Mask:	255.255.255.0

Fill in the name of the hotspot and the password of your WiFi router on the web page, click the "SAVE" button to save the settings, and click the "RESTART" button to restart the charging pile to make the settings take effect. Once it takes effect, the charging pile can be accessed through your WiFi router the Internet.

6.3 Operation Guide

1. Charging Preparation:

A. Find the charging pile product in the idle standby state, park the car, turn off the vehicle, and make the electric car in a chargeable state.



B. If choose to use APP: You can download the APP according to the prompts, and register an account according to the prompts.



C. If choose to use an RFID card: Contact the operator to obtain an RFID card; the private pile is equipped with an RFID card in the box.



2. To Connect The Charging Connector

Open the cover of the car charging socket, and connect the charging cable to the car socket stably. Make sure the connection is successful.



3. Start Charging

A. Plug and charge
The charging mode is configured as plug and charge, when step 2 is completed, the car is ready to start charging.



B. Tap card to start
Put the RFID card close to the card-tapping area to start charging by tapping the card, and tap the card again during the charging process to end the charging.



C. APP start and stop
Use the APP to scan the QR code to start charging, or connect to the electric pile through the Bluetooth of the mobile phone to start charging.



4. Charging:

During the charging process, the charging pile screen will display the charging voltage, charging current, charging time,



5. End Charging:

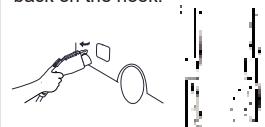
A. Through charging, the car owner can take initiative to end the charging through tap RFID card or stop on APP or can be stopped through the car terminal for plug-and-play charging situation.



B. After the car is fully charged, it can automatically end the charging.

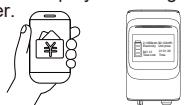


C. After the charging is completed, please pull out the charging coupler and put it back to the empty coupler-holder and hang the cables back on the hook.



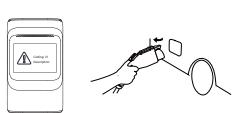
6. Order Settlement:

After the charging is completed, the display screen will display the charging power and charging cost. The order settlement will be completed on the APP or platform. Private piles and non-charging electric piles will display the charging power.



7. Abnormal Situation:

In any state, if there is abnormal prompt on the screen and the light bar, please stop charging and disconnect the charging cable from the socket on the car.



6.4 Troubleshooting

When a fault occurs, the charger will automatically protect. The fault information and processing methods are as follows.

Fault Code	Handling Method
Code 11: CP failure	Check that the adapter is properly connected to the electric vehicle, pull and plug the adapter and try charging again.
Code 13: Under voltage fault	Check that the input cable is reliably connected, that the parent grid is properly connected, and that the grid voltage is abnormal.
Code 14: Over voltage fault	Check whether the input cable is connected correctly; Whether the grid voltage is abnormal.
Code 15: Over temperature fault	Check whether the charging station is covered or installed in a high temperature environment.
Code 16: Meter failure	It is recommended to reboot on the power, there is a fault if you need to return to the factory.
Code 17: Leakage fault	Check whether the charging adapter and its cable are damaged or wet. Recover after pulling out the adapter.
Code 18: Short circuit fault	Check whether the charging adapter and its cables are damaged or wet.
Code 19: Over current fault	Check whether the charging adapter is correctly connected to the car, and check whether the on-board charger is normal.
Code 23: Relay sticking fault	The equipment is damaged and needs to be returned to the factory for repair.
Code 24: Leakage current device failure	Users need to re-plug the coupler or contact the after-sales service.
Code 25: Ground fault	The charging pile is not grounded, so the circuit needs to be tested.

7 Install

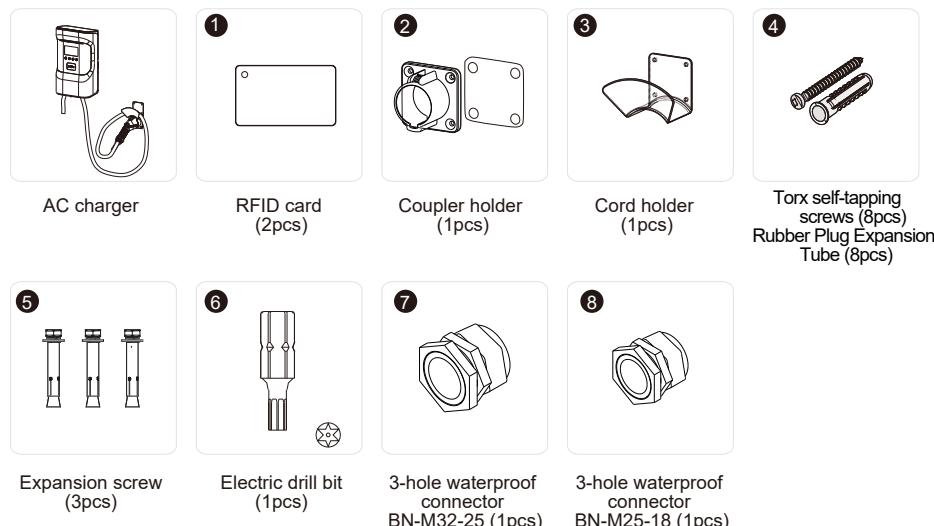
7.1 Label

On the EVSE shell, there is a nameplate identifying the charger model and specifications, the content of which is as follows.



7.2 Package

7.2.1 Packing List



7.2.2 Check and Confirm

When unpacking, please confirm the following points carefully: According to the packing list, whether the accessories are complete.

Whether there is any damage during transportation.

Whether the model and specification on the nameplate of the machine are consistent with the order requirements.

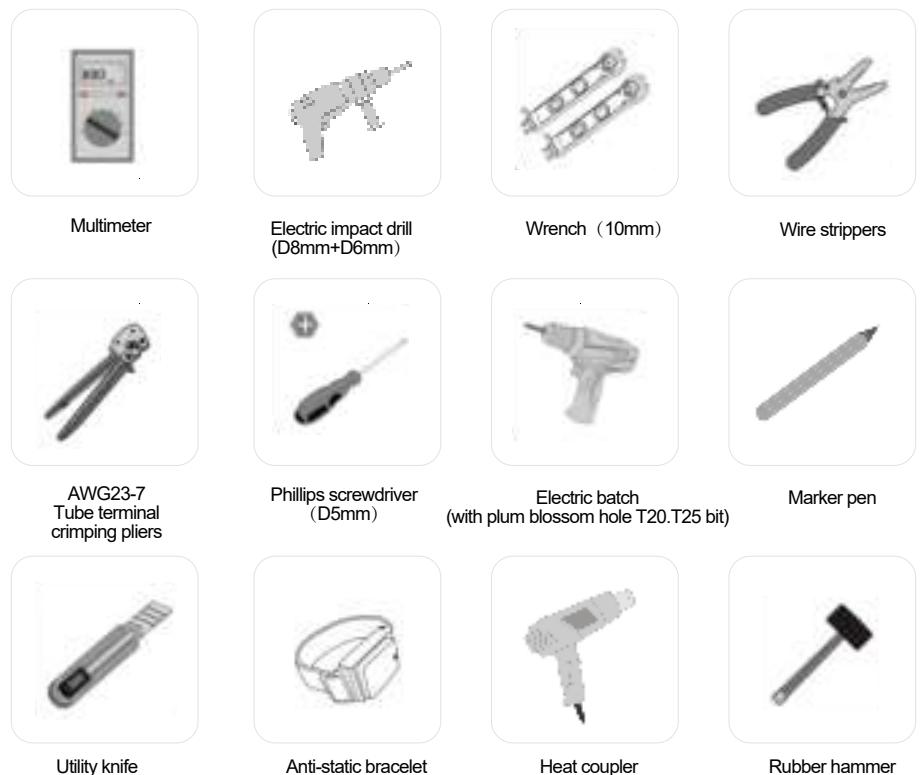
- ▷ If any damaged or missing parts are found, please do not start the machine and contact the supplier as soon as possible.
- ▷ Please keep the box and packaging materials for 1 month for future disposal. Paper packaging is recyclable.

7.3 Preparation

In order to ensure the long-term stable operation of the product, it is recommended to avoid the following installation problems.

- ▷ This product is an electrical device. Handle with care and avoid severe vibration and shock.
- ▷ EVSE cannot be transported by dragging the charging connector and charging cable.
- ▷ EVSE cannot be used in extreme weather, especially when the ambient temperature is too low or too high, which will affect the use of EVSE.

It is recommended to install EVSE in a ventilated and cool place away from direct sunlight and rain. To ensure good ventilation, you should install the EVSE vertically with enough space. Installation tools Before installing AC EVSE, you should at least prepare the following tools.

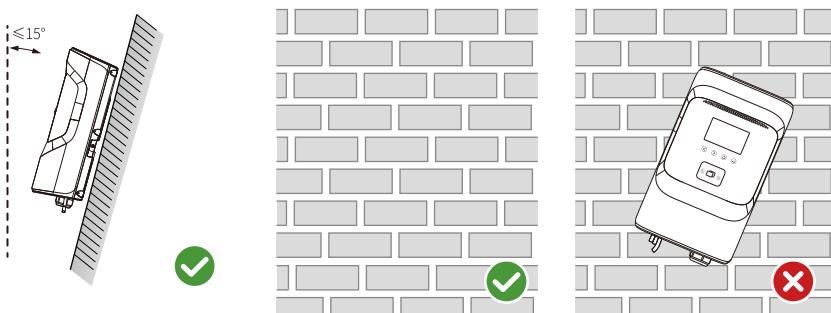


7.4 Installation Steps

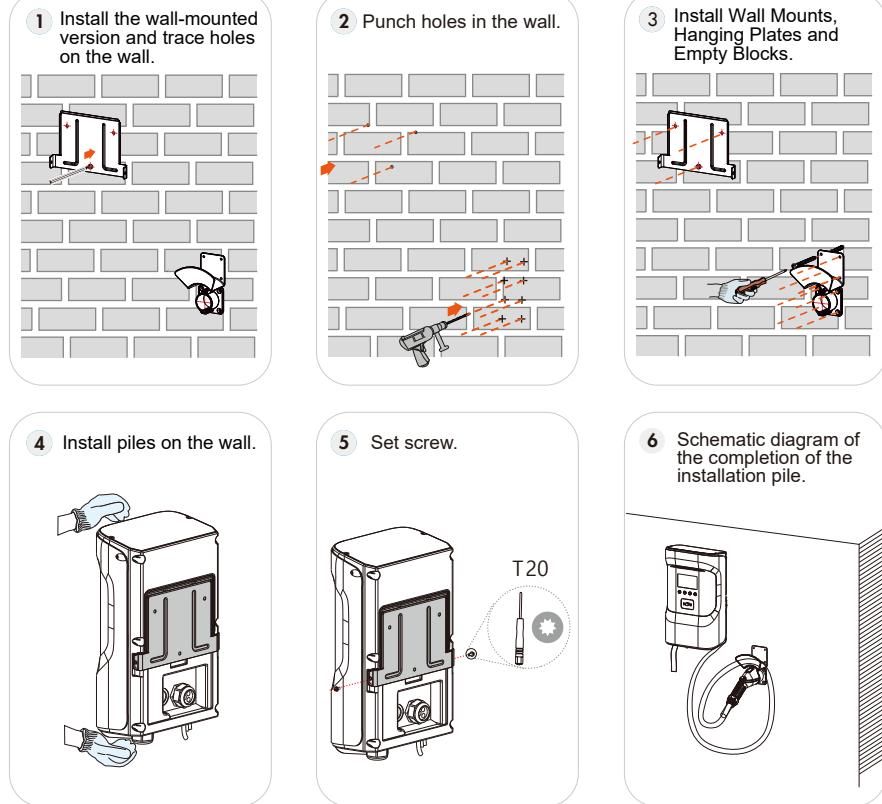
Location Requirements



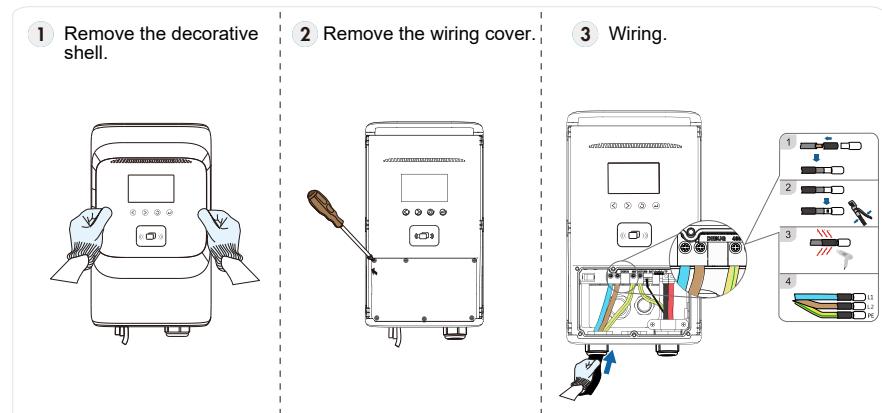
Angle Requirements

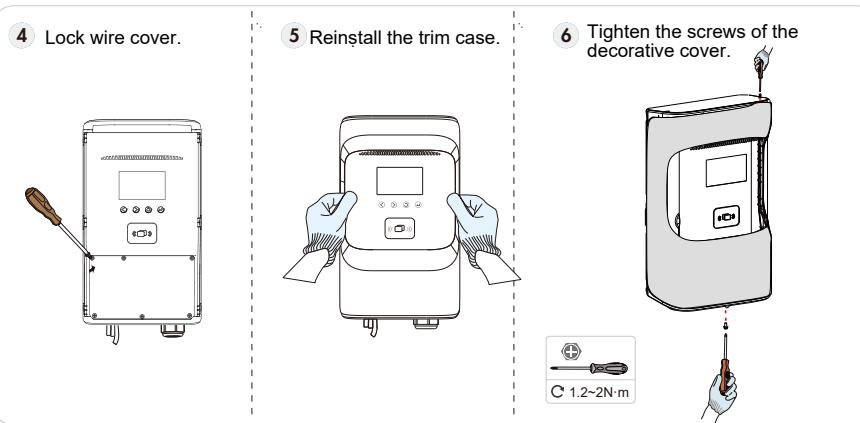


Wall-mounted Installation Steps



Product Wiring





7.5 Grounding Instructions

Grounding Instructions

This product must be connected to a grounded, metallic, permanent wiring system, or an equipment ground wire must be run with the circuit conductor and connected to the equipment ground terminal or conductor on the product.

The ground conductor must run with the circuit conductors and be connected to the equipment ground terminal or conductor on the product.

Wiring port	L1I L2I PE CP L2 L1
Crimp Terminal Specifications	E10-18 E6018 E1508 E10-12
Installation Tool Specifications	Diameter 3mm (0.1181") flat-blade screwdriver Diameter 5mm (0.1968") flat-blade screwdriver Diameter 5mm-6mm Phillips screwdriver
Wiring tightening torque	2~5 N·m

7.6 Maintain

To ensure the long-term stable operation of the device, please perform regular (usually monthly) maintenance on the device according to the operating environment.

- (a) Equipment is maintained by professionals.
- (b) Check if the equipment is well grounded and safe.
- (c) Check whether there are potential safety hazards around the charging pile, such as whether there are high-temperature, corrosive, or flammable and explosive items near the charger.
- (d) Check whether the connection points of the input terminals are in good contact and whether there is any abnormality. Check other wiring points for looseness.

Warranty

1. The scope of the warranty refers to the product itself.
2. The warranty period is 24 months. During the warranty period, if the product fails or is damaged under normal use (determined by the company's technicians), the company will repair it free of charge.
3. The starting time of the warranty period is the production date of the product.
4. Even within the warranty period, if the following conditions occur, a certain maintenance fee will be charged.
 - Equipment failure caused for not operate according to the user manual.
 - Equipment damage caused by fire, flood, abnormal voltage, etc.
 - Equipment damage caused by abnormal function of the product.
 - Equipment damage caused by the entry of foreign objects.
 - Equipment damage caused by other human-made external factors.
5. The service fee shall be calculated according to the actual cost. If there is any other contract, this contract shall prevail.
6. During the warranty period, please be sure to keep this card and show it to the maintenance personnel.
7. If you have any questions, please contact the agent or our company directly.



For Both FCC & IC application:

This device complies with Part 15 of the FCC Rules / Industry Canada licence-exempt RSS standard(s). 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.

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

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

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 in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

MPE Requirements

To satisfy FCC / IC RF exposure requirements, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during device operation.

To ensure compliance, operations at closer than this distance is not recommended.

Les antennes installées doivent être situées de façon à ce que la population ne puisse y être exposée à une distance de moins de 20 cm. Installer les antennes de façon à ce que le personnel ne puisse être à moins de 20 cm ou moins de la position centrale de l'antenne.

La FCC des États-Unis stipule que cet appareil doit être en tout temps éloigné d'au moins 20 cm des personnes pendant son fonctionnement.