

level 2 EV Charge

(80A) User Manua



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Safety Information



IMPORTANT SAFETY INSTRUCTION SAVE THESE INSTRUCTION

INSTRUCTIONS PERTAINING TO A RISK OF FIRE OR ELECTRIC SHOCK!

- It is recommended to have electrical outlets for your charger installed by a licensed and qualified electrician. To avoid serious injury or death, the installation must comply with the provisions of the National Electric Code (NEC) and all local codes. In cases of any conflict between the local codes and the NEC, local codes shall take precedence.
- **WARNING** -When using electric products, basic precautions should always be followed, including the following. This manual contains important instructions for 80A models that shall be followed during installation, operation and maintenance of the unit.
- DO NOT DROP the charger or coupler.
- If the output plug separates from the charger module or the charge coupler, **DO NOT ATTEMPT TO REPAIR THE CABLE YOURSELF.** Contact us for assistance.
- When using your charger, always follow basic precautions, including the following:
 - Read warnings on the charger cord label before operating the charger for the first time.
 - Read all instructions in this guide before using this charger.
 - Do not insert fingers into the electric vehicle connector.
 - Do not use this product if the flexible power cord or EV cable is frayed, has broken insulation, or shows any other signs of damage.
 - Never use the charger with an extension cord.
 - Never use the charger with any AC adapter.

- **Shock hazard** --Ensure the plug is fully inserted into the wall outlet to avoid exposed blade surfaces.
- Supervise children when in the vicinity of the charger while plugged in.
- Handle the equipment with care during transportation. Do not subject it to strong force or impact or pull, twist, tangle, drag or step on the equipment, to prevent damage to it or any components.
- Keep the product in a clean, low humidity environment, avoid moisture or water. If stains are present, wipe them with a clean, dry cloth.
- **NOTE** - This equipment has been tested and found to comply with the limits for a Class B digital device. 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.
- This equipment complies with radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator & your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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.

CAUTION

To reduce the risk of fire, connect only to a circuit with branch circuit over-current protection rated at 100 A in accordance with the CSA C22.1-15 Canadian Electrical Code, Part 1 (Canada) or ANSI / NFPA70 National Electrical Code (USA).

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

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.



Warning



The input/output voltage of this product is dangerously high, posing a risk to human life safety. When installing, repairing, and maintaining the product, please strictly adhere to all warnings and operating instructions provided in the user manual, as well as comply with all applicable local, regional, and national laws and regulations. Failure to do so may result in death, injury, or property damage, and void the limited warranty. Non-professionals should not remove the cover of this device.

Package Verification

- 1 xElectric Car Charge pile
- 1 xWall-mounted shelf
- 1 xUser Manual
- 2 xL-shaped box wrench
- 2 xRFIDcard
- 5xScrews
- 4xExpansion pipes



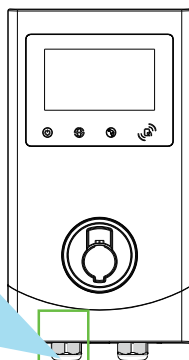
Disclaimer

- The user manual provides crucial instructions for installing and operating this product. Prior to any operations, it is essential to thoroughly read the user manual to comprehend the correct usage of the device. After reading, please retain the user manual for future reference.
- The specifications and other information in this manual have been verified for accuracy and completeness at the time of publication. Nevertheless, due to ongoing product improvements, this information may be subject to change without prior notice.
- We disclaim responsibility for customized installations or programs not detailed in the user manual, and we cannot be held accountable for any damages resulting from not adhering to the recommendations outlined in the user manual.
- Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- Please handle the device carefully when transporting. Do not perform the following actions on the device, including but not limited to: force, impact, pulling, twisting, wrapping, dragging, trampling, and stepping on the device to avoid damaging the device or other parts

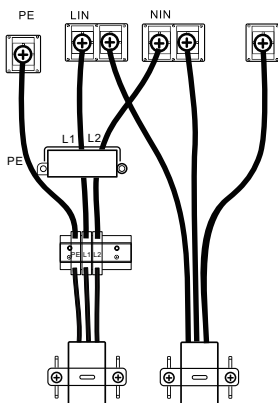
Hardwired Installation (3AWG wire is Recommended)

1. Remove the charger cover by unscrewing the rear screws with appropriate screwdriver.
2. Loosen the cable gland, then insert the AC input cable into it. Guide the L1 and L2 through the red transformer, ensuring the length is suitable for the subsequent installation of wire terminals. Finally, tighten the cable gland securely..

The input line is connected to the power supply, and ensure that there is 125% of the rated current in front of the empty open.

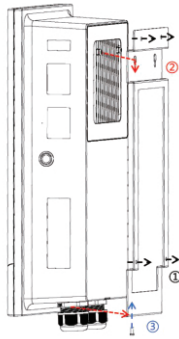


3. Loosen the screws and, referring to the silk markings on the board, secure the wire terminals (L1, L2, PE) in their respective positions (LIN, NIN, PE). Complete the installation by reattaching the cover.



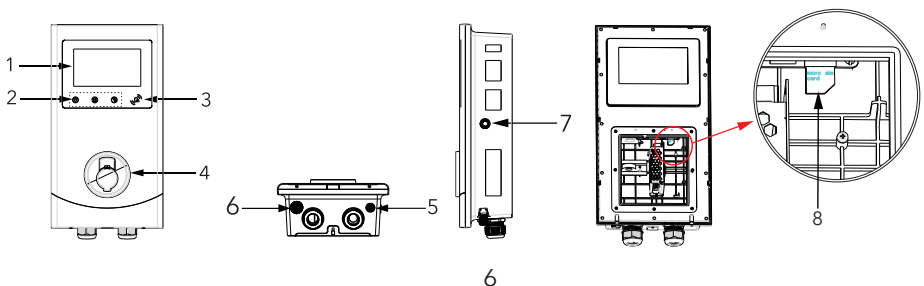
Wall-mounted Installation

1. Align the Wall-mounted shelf with the holes in the wall, insert the expansion pipes, and secure it to the wall using the provided screws.
2. Put the charger on the shelf, align it with the holes, insert the protruding part of the charger into the holes and push the charger down.
3. Fasten the charger to the shelf using the screws provided.
4. To install the equipment, a reinforced concrete surface or other reliable surface is required to anchor the equipment to the wall.. The height from the ground position should be between 0.6m and 1.2m.



Product Overview

- | | |
|---|---------------------------------|
| 1. LCD screen | 3. Card reader |
| 2. LED Indicators (from left to right): | 4. Charging Gun Socket |
| • Power LED | 5. RS485 Cable Port |
| • Internet Connection LED | 6. RJ45(Ethernet) Cable Port |
| • Charging LED | 7. Power on/off button |
| | 8. 4G SIM card (micro sim card) |



RFID card use

- 1.Configure server information, charging point ID, user name, password, networking method and other information.
- 2.Adding Cards to the platform.



- 3. After successfully completing all the steps mentioned above, insert the charging gun into your car, then swipe the RFID card, and charging will start automatically.

LED Description

Status	Indicator Status				Instructions
	Power Indicator	Networking Indicator	Charging Indicator	Card Indicator	
Initial state	Green	White(On 500ms,Off 500ms)			Power-on self-test
Standby		Successful network connection: green color is always on	Blue light is always on	Card not swiped: green always on	
Gun inserted, unauthorized			Blue light flashing		
Gun inserted, authorized			Green light flashing		
Charging		Not networked: light off	Green light breathing	Card swiped successfully: blue flashing for 5 seconds	
Charging ends or stops			Green light is always on		
Malfunction			Red light is always on		

LCD Screen Instructions

The following table describes the text information of the LCD screen.

Charging status and Illustration :

Charging Status	Illustration
Connected	Plugged in (unauthorized charging)
Waiting	Plugged in (charging authorized)
Charging	Charging
Paused	Pause
Completed	Charging end

Fault status and Illustration :

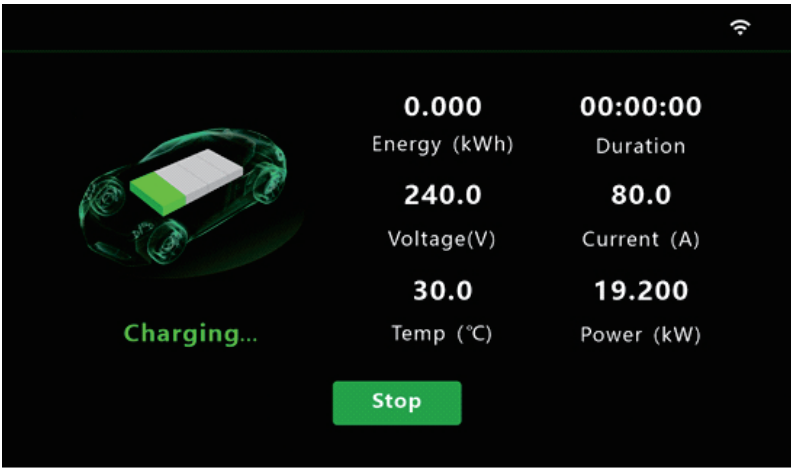
Fault status	Illustration
Relay bonding	Relay failure
Leakage	Leakage fault
Pe err	Ground fault
Pcb overtemp	Over temperature fault
Over current	Over current fault
Over voltage	Over voltage fault
Under voltage	Under voltage fault
Cp voltage err	Control Pilot failure
Card reader error	Card reader failure
Comm b err	Communication between the main board and the communication board failed

Display instructions:

Note:

- 1.The display pictures are for reference only, and there may be differences in actual use.
2. The parameter value displays above the text.

- 3. The network icons are different for different network modes. The network modes include 4G, Wi- Fi, and Ethernet. The following takes Wi -Fi as an example.
- 4. Enter the card swiping or code scanning page, and it will automatically return if there is no operation after 1 minute.



Charging page

Energy (kWh) :	Charged amount
Duration :	Charging time
Voltage (V) :	Charging voltage
Current (A) :	Charging current
Temp (°C) :	Temperature
Power (kW) :	Charging power

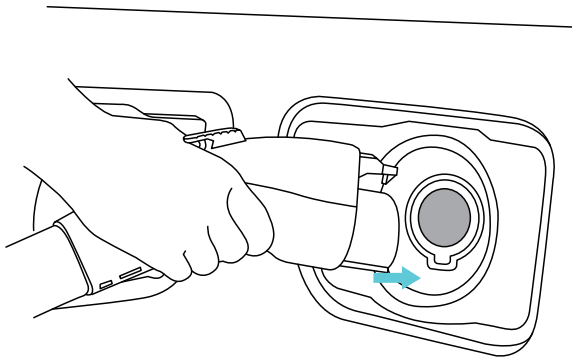
Specification

MODEL	TB80USMJX8Y0Z1
Standard	US
Power	19.2KW
Input voltage	208~240V AC
Output voltage	208~240V AC
Input frequency	60Hz
Output current	80A adjustable
Rated residual operating current	CCID20
Over temperature protection	≥95℃
Mean time between failure	MTBF≥8760h
Charging start mode	Plug and play, RFID, APP
Rf parameters	Operating frequency: 2400-2483.5MHzforWiFi and BLE 13.56MHz for RFID Maxtransmitting power. <20dBm for WiFi <10dBmfor BLE <-3 dBuAm @ 3m for RFID
App	Support
Relative humidity	5%~95% No condensation
Maximum altitude	2000m
Life time of connector	≥10000 times
Operating temperature	-30℃- +50℃
Storage temperature	-40℃- +85℃
Cable length	7 meters (Customizable)
Wiring method	Enter and out at the bottom
Communication	RS485/WIFI/ETH/4G Optional
Connector type	SAE J1772 Type1
Weight	4.4 Kg (cable and charging gun not included)
Color	Black/Dark Grey/LightGray
Host dimension	464.5*245.5*129 mm
Waterproof	Charging ConnectorType3R, Host Type4
Explosion proof	IK08

Charging Your Vehicle

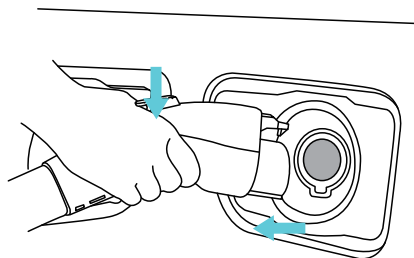
Note: Ensure that the car is parked and the engine is turned OFF.

1. Connect the power, the Power LED will turn Solid Green, indicating that the charger is receiving AC power and is ready for use.
2. Plug the Charging gun into your vehicle's charging outlet until it clicks. Once latched, the charge coupler will not disengage until the release button is manually pressed. The Charging LED will turn Solid Blue, indicating a successful connection, and the system is ready for charging.



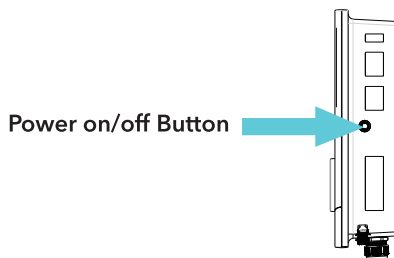
3. Charging begins by swiping your card or APP. Power will be delivered according to the vehicle's demand. While charging, the Charging LED will breathing green. You can check the vehicle charging information on the screen.
4. When the vehicle is fully charged, the Charging LED will turn Solid Green, and the LCD screen will display a fully charged icon and 'Charging end' status. Your vehicle has a dashboard gauge that can verify full charge status; refer to the vehicle owner's manual to locate the gauge on your dashboard.

5. Disconnect the charger when the charging is completed by pressing the release button on the charge coupler and removing it from the vehicle.



note:

Press the button to turn on the charging pile; Press the button to cut off the power supply of the charging pile.



Maintenance and cleaning

Do not use the equipment during maintenance or cleaning operations.

Apply a sign with the indication “Maintenance in progress” on the equipment and wear adequate personal protective equipment during maintenance and cleaning operations.

Do not try to open or remove any part of the equipment during the maintenance or cleaning operations.

For the maintenance and cleaning operation not indicated in this manual, please refer to costumer care service.

Do not spray water or other high-pressure liquids directly on the equipment to prevent it from penetrate the charger cabinet and creating contamination, humidity or short circuits.

Only use a damp cloth to remove dust and dirt from the equipment. Solvents or other cleaning agents could damage the components of the equipment

Do not use abrasive or sharp tools during cleaning operations.

Sharp or abrasive tools can damage the components of the equipment.

Maintenance plan

Frequency	Operator	Type of maintenance
Everyday *	Owner	Charger cabinet, external cleaning
NOTE: * Depending on the specific climate environment where the equipment is installed.		

Charger cabinet cleaning

To carry out a correct cleaning of the equipment, follow the operations below:

1. Check that the equipment is not in operation and the ventilation fans (if equipped) are stopped;
2. Remove dirty deposits using a soft, non-abrasive brush;
3. Use a damp cloth to clean surfaces.

Security check plan

Frequency	Operator	Part to check	Control type
Before each use	User	Cable and charging plug	Check for damage or defects such as: Cracks and dents; Inner wires of cable visible; Water or other liquids inside the gun.
Before each use	User	Display	Check for damage or defects such as: Cracks; Not full visible
Before each use	User	Charger cabinet	Check that the door is closed and secure
Every day	Owner	Charger cabinet	Check for damage or defects such as: Cracking; Breakups; Rust; Damaged paint
Every 6 month	Owner	Internal circuits	Safety systems efficiency check *
NOTE: * Operation reserved for specialized technicians, and the equipment owner is responsible to schedule that Please contact the costumter care service.			

Moving and Transporting instruction

Handle the equipment with care and use the original packaging.
When handling the equipment or its original packaging, it is prohibited:
subject to strong forces or shocks;
to twist;
push, pull or drag;
step on.

The installation or use of an equipment with damaged original packaging can compromise the correct use of the charging station and the safety of the operators.

Do not use pointed or sharp objects to open the original packaging.
The use of pointed or sharp objects could damage or cut components of the equipment, compromising its correct functioning.

During transportation, severe vibration, impact, sun and rain, and package dumping or dropping should be avoided.
Loading and unloading operations should also be paid enough attention to avoid product damage.

Do not lift or tow the equipment using the EV charging cable.
The equipment is only allowed to be lifted by the proper hook.

Storage Instruction

For a long storage of the equipment, follow the operation below:
store the equipment only in the original box;
The ambient temperature and relative humidity must be within the indicated range (see 9. Technical data);
no harmful gases, inflammable and explosive articles and corrosive chemicals have to be placed in the warehouse;
there shall be no strong mechanical vibration, shock and strong magnetic field;
the packing box should be at least 20 cm (7,8 in) away from the ground and at least 50 cm (19,5in) away from walls, heat sources, windows or air inlets.
The storage period under these specified conditions is usually 2 years. If it exceeds 2 years, a new inspection shall be carried out on the product.

Product storage

For the environmentally friendly recycling and disposal of your old device, contact a certified disposal service for electronic scrap.
Dispose of the device in accordance with the applicable regulations in your country.

Packaging storage

The packaging of the charging station does not contain any hazardous substances. Send the packaging for recycling in accordance with the applicable regulations in your country.

Cet appareil est conforme aux limites d'exposition au rayonnement RF stipulées par la FCC et l'IC pour une utilisation dans un environnement non contrôlé. Les antennes utilisées pour cet émetteur doivent être installées et doivent fonctionner à au moins 20 cm de distance des utilisateurs et ne doivent pas être placées près d'autres antennes ou émetteurs ou fonctionner avec ceux-ci.

Troubleshooting

Please consult this troubleshooting guide for potential solutions to common errors or difficulties that may arise when charging your vehicle.

Problems	Possible Causes	Solutions
Charging Indicator does not illuminate	No power to the charger.	1. Check the circuit breaker and other circuit loads. 2. Try another outlet. 3. Ensure that the charger module is fully inserted into the wall outlet.
	Charger internal failure.	Contact us for assistance.
Vehicle will not charge	Vehicle is not in a state to accept any charge.	Verify that the vehicle charge timer is set to permit charging. Refer to the vehicle owner's manual for charge timer instructions.
	Communication error.	1. Ensure the connection between charger and vehicle. 2. If the condition persists contact us for assistance. 3. Disconnect the charger module from the wall outlet, then reconnect it.
Over/Under voltage	AC input voltage out of range.	1. If the voltage is over 264Vac or under 176Vac for a short time, wait for the grid recover to the normal voltage range. 2. If the condition persists contact us for assistance.
Over current	AC input current out of range.	1. Disconnect the Leakage/over current protection switch of the distribution box. 2. Check if there is a low impedance connection between two cables of output. 3. If the condition persists contact us for assistance.
Over temperature	The temperature of the Charger internal is too high.	1. Temperature is too high. The charger will restart charging when it cools down. 2. Check if there are heating devices nearby, and ensure that the charger in the environment of which temperature is below 55°C.

Problems	Possible Causes	Solutions
Over temperature	House/socket wiring may be faulty.	1. Have a qualified electrician inspect the wall outlet and adapter. 2. If the condition persists contact us for assistance.
Leakage protection	Abnormal sensor for detecting leakage current.	1. Disconnect the Leakage/over current protection switch of the distribution box. 2. Check whether the output cables is damaged or has a low impedance connection to the ground. 3. After troubleshooting the above issues, reset the distribution box and restart the charger. 4. If the condition persists contact us for assistance.
Ground protection	Abnormal grounding of input or output	1. Disconnect the Leakage/over current protection switch of the distribution box. 2. Check if the grounding of the input/output cables of the charger is normal. 3. After troubleshooting the above issues, reset distribution box and charger. If the condition persists contact us for assistance.

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Intertek
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CONFORMS TO UL
STD. 2594
CERTIFIED TO CSA
STD. C22.2 NO. 280

