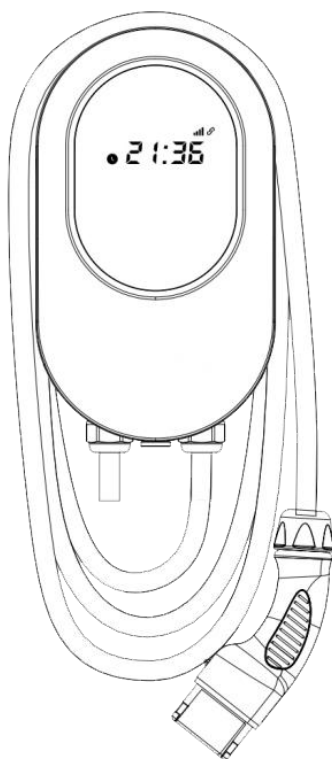

Electric Vehicle AC Charger

Installation Manual

For models:







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 **WARNING & CAUTION**

1. Safety Instructions








1.1 Warnings & Cautions

-  **WARNING:** To avoid fire, injury or death, read and follow the instructions carefully during installation, operation and maintenance.
DO NOT put fingers into the electric vehicle connector.
DO NOT use this product if the power cord or EV cable is frayed, insulation-broken, or any other signs of damage.
DO NOT use this product if the enclosure or the EV connector is broken, cracked, open, or shows any other indication of damage.
DO NOT remove cover or attempt to open the enclosure because of risk of electric shock.
-  **WARNING:** This device should be supervised when used around children.
-  **WARNING:** This device must be grounded.
-  **WARNING:** To avoid the risk of fire or electric shock, do not use this device with an extension cord.





Circuit Breaker Options			
	1-phase	3-phase	
Output Amperage (A)	32A	16A	32A
Circuit Breaker Options (A)	40A	20A	40A

INSTALLATION MANUAL

1.2 Installation Requirements

-  **WARNING:** Disconnect electrical power prior to installing the charging station.
-  **WARNING:** Be sure to preview the user manual and ensure local building and electrical codes are reviewed before installing the AC charger.
-  **WARNING:** The AC charger should be installed by a qualified technician according to the user manual and local safety regulations.
-  **CAUTION:** Use appropriate protection when connecting to the main power distribution cable.
-  **CAUTION:** Type A, B, C or D breaker with the rating current for table should be installed in the upstream AC distribution box.
-  **CAUTION:** The device shall be mounted at the height between 600 mm and 1200 mm from ground.
-  **CAUTION:** Please keep the charger in a clean area with low humidity. Not recommended to be installed in coastal environments with high humidity or thick dust.

1.3 Daily Maintenance

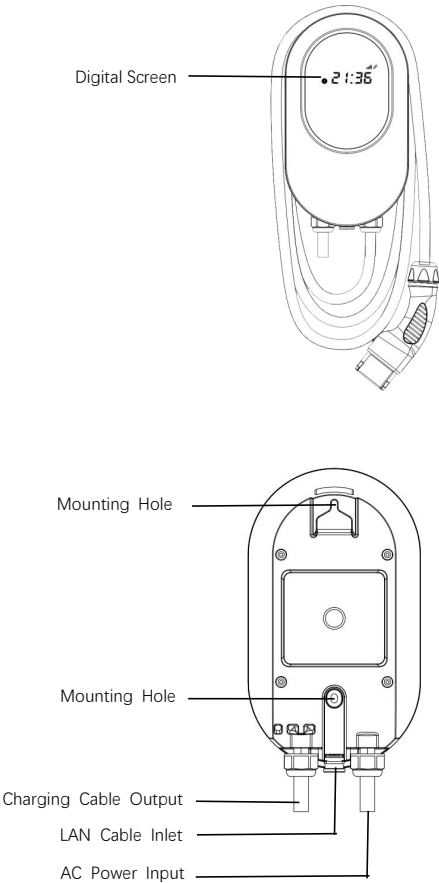
-  **CAUTION:** Avoid moisture or water in the charger. If there is water or moisture ingress in the charger, it is necessary to immediately power off to avoid immediate danger and notify the professionals to carry out maintenance before next use.
-  **CAUTION:** Please use the charger properly. Do not hit or press hard on the enclosure. If it is damaged, please contact a professional technician.
-  **CAUTION:** Avoid placing the charger near hot objects and at high temperature locations and away from dangerous substances such as flammable gases and corrosive materials.
-  **CAUTION:** Do not put heavy objects on the charger to avoid danger.

2. Product Introduction



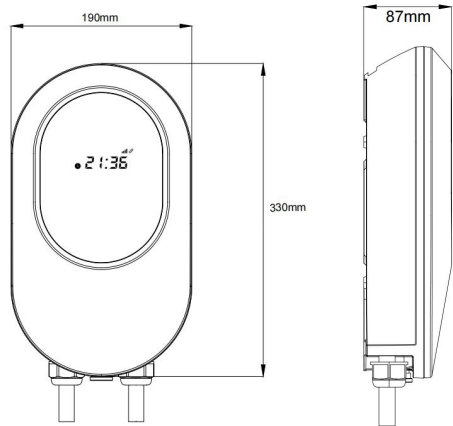
CAUTION: Avoid placing the charger near hot objects and at high temperature locations and away from dangerous substances such as flammable gases and corrosive materials.

2.1 Basic Interface

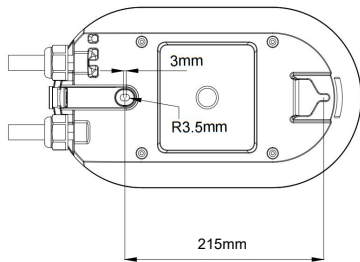


2.2 Basic Dimension

Enclosure



Wall-Mounted Holes



2.3 Specifications

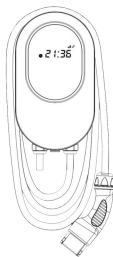
TECHNICAL		
Model Number	LT	
Rated Input Voltage	230Vac ± 10%	400Vac ± 10%
Rated Output Current	7kW/32A	11kW/16A; 22kW/32A
Standard Compliance	IEC 61851-1, IEC 61851-21-2	
Charging Connector	5 Meter Tethered IEC Type 2 Lead	
Charging Mode	Mode 3	
Electrical Protection	UVP, OVP, RCD (DC 6mA), SPD, Ground Fault Protection OCP, OTP, Control Pilot Fault Protection	
Energy Meter	On-board Device +/- 1% Accuracy	
FEATURES		
User Interface	Digital Screen	
Multi Cable Entry	Bottom Side	
NETWORK		
Connectivity	LAN Ethernet	
ENVIRONMENT		
Operating Temperature	-30° C to 50° C	
Operating Humidity	Up to RH 95% Non-condensing	
Impact/ Ingress Protection Rating	IP54	

INSTALLATION MANUAL

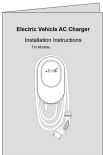
PHYSICAL	
Housing Material	PC with Anti-UV Treatment
Dimension in mm	87 x 190 x 330 (D x W x H)
Net Weight	≈4 - 8kg
OPTIONS	
Charging Connector	7.3 Meter Tethered IEC Type 2 Lead
Communication Protocol	OCPP1.6J
Electrical Protection	E-stop Button with Protection Cover
Data Connection	Back-end Service via OCPP / Home App
NFC Authentication	ISO / IEC 14443A / MIFARE (13.56 MHz)
Pedestal	Single / Back-to-Back Mounted

3. Accessories

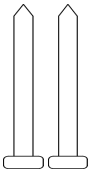
Check the box to ensure you these parts:



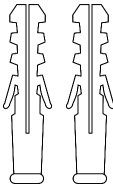
1



2



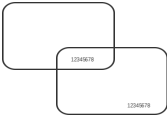
3



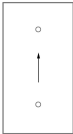
4



5



6



7

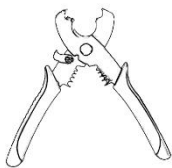
INSTALLATION MANUAL

No.	Product Name	Quantity	Description
#1	AC Charger	1	With attached input power cable and output charging cable
#2	User Manual	1	PDF version available online
#3	Screws	2	For installing the AC Charger to the wall/structure
#4	Expansion Rubber Sleeve	2	For Lock Screw to the wall/structure
#5	Screw Cover	1	For covering screw
#6	Standard RFID Cards	2	To start/stop charger for the unit with RFID reader
#7	Mounting Template	1	For easy drilling of 2 screws holes for AC Charger.

4. Tool for Mounting

Tools required before installing the Wall-mounted charger, gather the following tools:

1. Wire stripper
2. Adjustable wrench
3. Voltmeter or digital multi-meter (for measuring AC voltage at the installation site)
4. Level
5. Pencil or marker
6. Drill
7. Phillips screwdriver



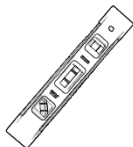
1



2



3



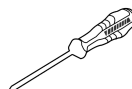
4



5



6



7

Note: The above tools are very important, get them ready prior to installation.

5. Plan for Mounting



WARNING: In areas with frequent thunderstorms, add surge protection at the service panel for all circuits. Ensure all power and ground connections, especially those at the breaker and bus bar, are clean and tight.

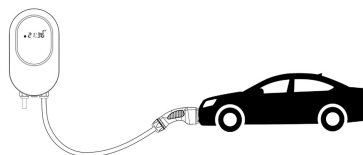


CAUTION: Not recommended to be installed in coastal environments with high humidity or thick dust.

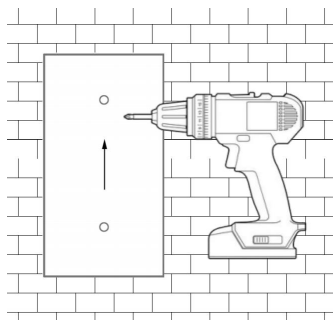
STEP 1

Select the appropriate mounting location with electrical capacity:

- I. Ensure the owner has chosen a mounting location that allows the charging cable to reach the car's charging port while still providing slack.
- II. The device must be anchored on a solid wall or a stud with the dimensions: 80mm x 130mm.
- III. The device shall be mounted at 1200mm height from ground.



STEP 2

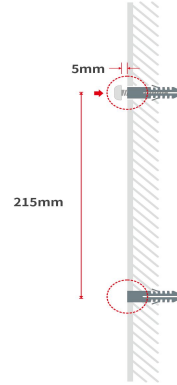


Drill 2 Screw Holes with a diameter of 12mm and a depth of 57mm by using #7 mounting template. Please drill screw holes in the direction of the template arrow.

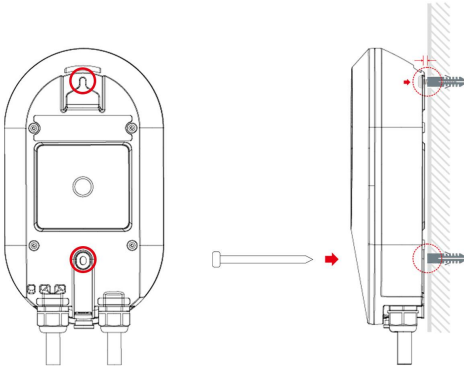
6. Mount the Charger

STEP 3

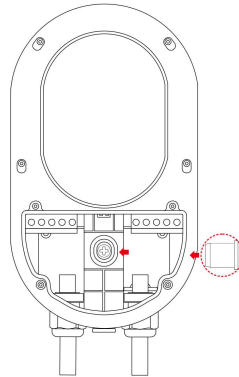
Nail #4 two expansion rubber sleeves into the holes and nail #3 one screw to the top expansion rubber sleeves. The distance between the cover of the screw and the wall is about 5mm.



STEP 4



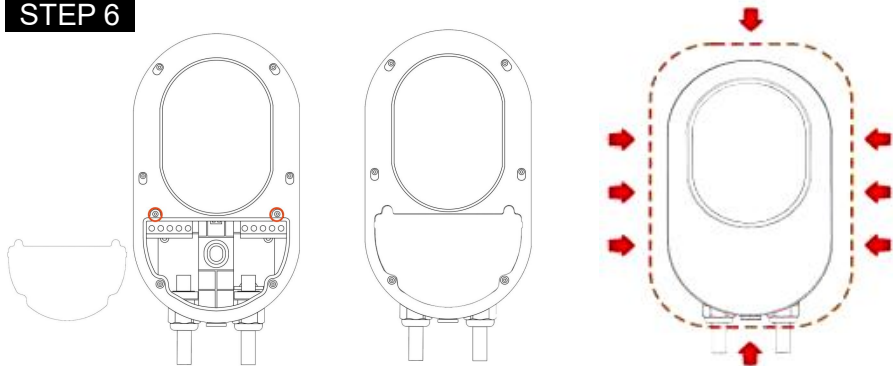
STEP 5



Align the rear notch of charger with the holes and hang the top notch on the top screw, fit the #3 screw to the bottom hole.

Cover the screw with #5 screw cover.

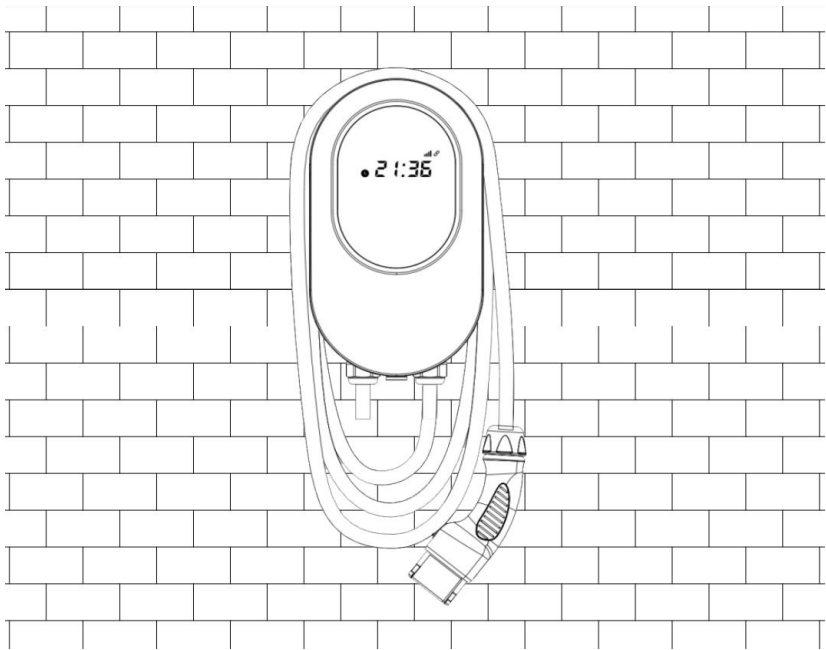
STEP 6



Fix the inside cover on the charger with two screws and fasten the outside cover.

STEP 7

Overall outlook after installation.



7. Wire the Circuit



WARNING: This device must be grounded. Disconnect electrical power prior to installing the charging station.



WARNING: Improper connection of the equipment-grounding conductor would result in a risk of electric shock. Check with a qualified electrician or serviceman if you are not sure whether the product is properly grounded. Do not modify the plug provided with the product – if it doesn't fit the outlet, have a proper outlet installed by a qualified electrician.



CAUTION: Use appropriate protection when connecting to the main power distribution cable.

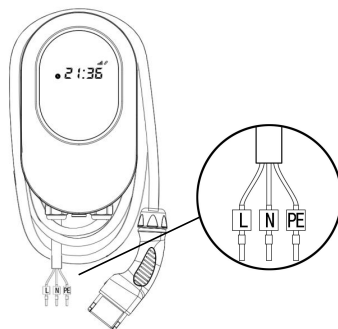
STEP 8

For the safety purpose, please set circuit breaker protection in the input part of EV Charger.

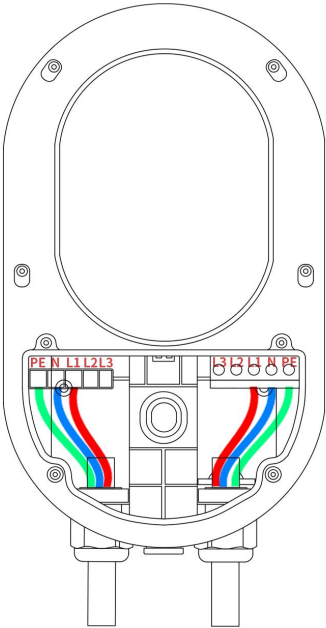
Please follow the instructions below:

For Single Phase

Connect the L1 lead to the grid L1, connect the N lead to the grid N, connect the PE lead to the grid PE.



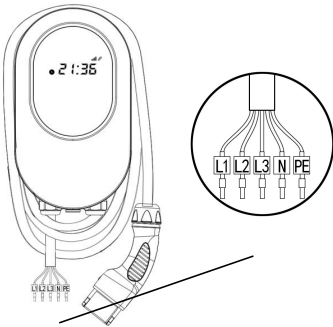
INSTALLATION MANUAL

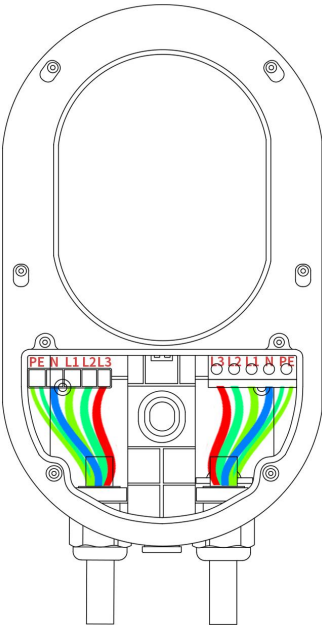


Circuit Breaker Options	
	1 Phase
Output Amperage (A)	32A
Circuit Breaker Options (A)	40A

For Three Phase

Connect the L1 lead to the grid L1, connect the L2 lead to the grid L2, connect the L3 to the grid L3, connect the N lead to the grid N, connect the PE lead to the grid PE.





Circuit Breaker Options		
	3 Phase	
Output Amperage (A)	16A	32A
Circuit Breaker Options (A)	20A	40A

8. Operate the Device



WARNING: This device should be supervised when used around children.



CAUTION: Please use the charger properly. Do not hit or press hard on the enclosure. If the case is damaged, please contact a professional technician.



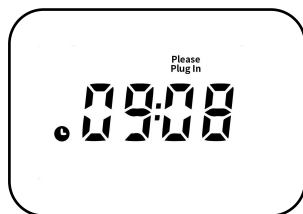
CAUTION: Do not put heavy objects on the charger to avoid danger.

8.1 Operating Steps with Plug and Charge

STEP 1

Standby:

After the power has been turned on, you will see the sign “Please Plug In” on the LED screen.



STEP 2

Plug the Charging Connector:

Please plug the charging connector into the vehicle charging inlet.



INSTALLATION MANUAL

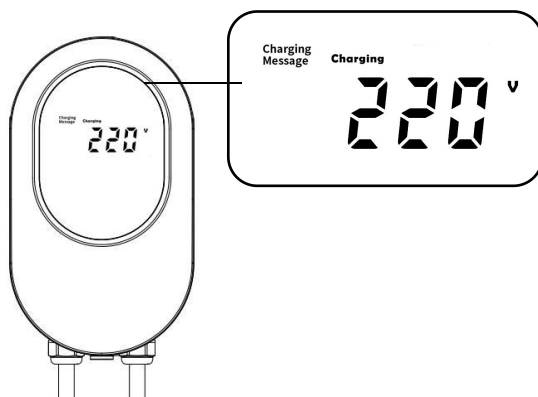
STEP 3

Charging: When the charging is going on, you will see the following info on the LED screen:

“Charging”, circularly voltage, currents and kWh.

If the sign “▲” is on, try to plug the vehicle connector again.

If the sign “▲” continues to be on, please refer to “9.2 Error and warning message”.

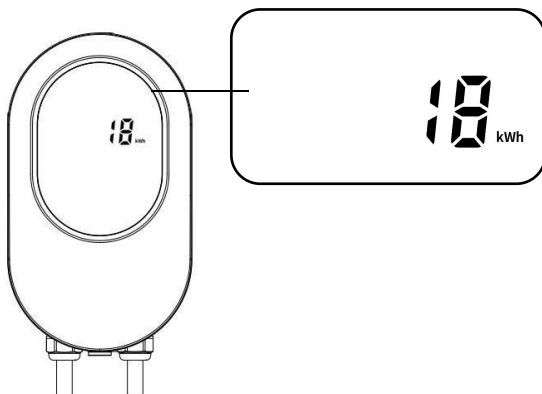


STEP 4

Charging finished:

When the charging is completed, the number of total kWh will be shown.

This indicates the total kWh your car has received. Please pull out the charging connector.



8.2 Operating Steps with RFID

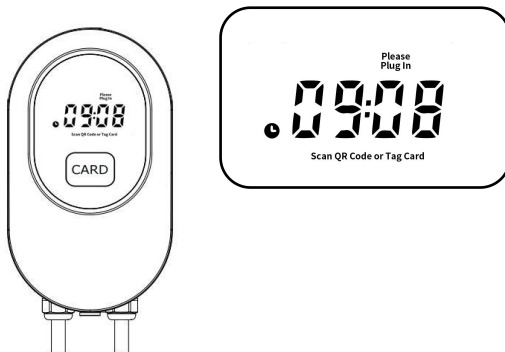


CAUTION: Please keep your RFID card properly to avoid unnecessary loss.

STEP 1

Standby:

After the power has been turned on, you will see the sign “Please Plug In” on the LED screen and the sign “Scan QR Code or Tag Card”



STEP 2

Ready to charge:

Please plug the charging connector into the vehicle charging inlet.



STEP 3

Tap the standard RFID Card:

Please plug the charging connector into the vehicle charging inlet and tap the RFID card.



INSTALLATION MANUAL

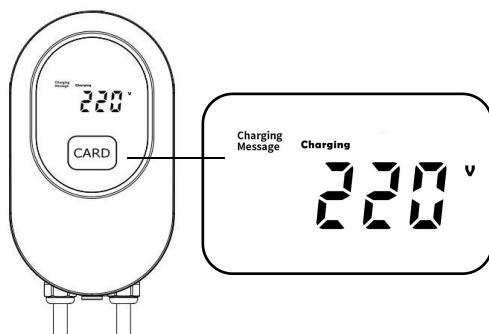
STEP 4

Charging:

When the charging is going on, you will see the following info on the LED screen: "Charging", circularly voltage, currents and kWh.

If the sign "▲" is on, try to plug the vehicle connector again.

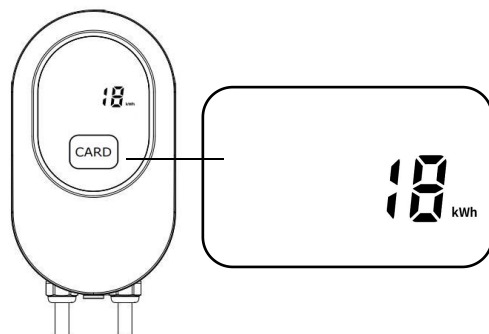
If the sign "▲" continues to be on, please refer to "9.2 Error and warning message".



STEP 5

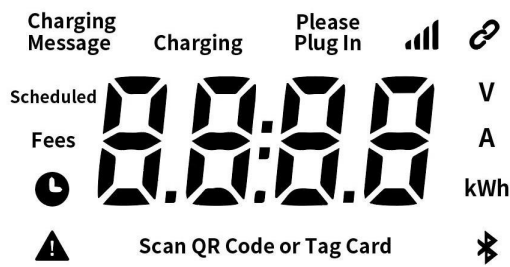
Charging finished:

When you swipe your RFID card to stop charging, the number of total kWh will be shown. This indicates the total kWh your car has received. Please pull out the charging connector.



9. The Digital Screen

9.1 The Details of Screen



9.2 Error and Warning Messages

Status	Screen Display	Remark
Off Ground	0001	Auto Recover
RCD Abnormal	0002	Auto Recover
Over Current Protection	0004	Auto Recover
Over Voltage Protection	0008	Auto Recover
Under Voltage Protection	0016	Auto Recover
Energy Meter Fault	0032	Contact Customer Service
Control Pilot Fault	0128	Auto Recover
Over Temperature Protection	0256	Auto Recover
Ground Fault	0512	Auto Recover
Ground Self-Test	1024	Auto Recover

10. Warranty and Maintenance

- The warranty period for this charger is one year.
- During the warranty period for any malfunction under normal use according to the User Manual and Service Instructions (to be determined by certified maintenance technicians of sellers), the product shall be repaired free of charge. Except for the following conditions:

1. The SN (Serial Number) of the charger cannot be provided.
2. Those who exceed the manufacturer's specified warranty period.
3. Those who damage the product due to not following the product service instruction for use, maintenance and storage.
4. Damage or malfunction caused by external object entering.
5. Unauthorized repair, disassembly or modification.
6. Damage caused by force majeure (such as lightning, excessive voltage, earthquake, fire, flood, etc.).
7. Malfunction and damage caused by other unavoidable external factors. Malfunction and damage caused by improper use of equipment, such as water or other solutions entering the equipment.
8. Malfunction and damage caused by the grid power supply and voltage which is not specified for use with the charger equipment.

The above guarantees shall be made independently, and no other expressed or implied warranties shall be made (including the implied warranties of merchant ability, particular and applicable reasons) whether in the contract, civil negligence, or other aspects, the Company shall not be responsible for any special, incidental or consequential damages.

End of Installation Manual