



## **Aries Series EV Charger**

### **User Manual and Installation Instructions**

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# 1. Safety Instructions

## IMPORTANT SAFETY INSTRUCTIONS

### SAVE THESE INSTRUCTIONS

**WARNING**-When using electric products, basic precautions should always be followed, including the following. This manual contains important instructions that must be followed during operation and maintenance of the unit.

### **WARNING! RISK OF ELECTRIC SHOCK OR FIRE.**

This manual contains important instructions for Aries Series EV Charger.

Read and follow all warnings and instructions before installing and operating the charger. Install and operate only as instructed.

Failure to do so may lead to death, injury, or property damage, and will void the Limited Warranty.



#### **WARNING**

**TO AVOID FIRE, SHOCK OF DEATH, TURN OFF POWER** at the circuit breaker or fuse before installing or cleaning the charger!



#### **WARNING**

**TO AVOID FIRE, SHOCK OF DEATH, OR DAMAGE TO THE CHARGER**, carefully read the charging instructions in your vehicle's manual before charging and heed the following warnings:

- 1) This device **MUST** be installed, adjusted and serviced by qualified electrical personnel familiar with the construction and operation of this type of charger and the dangers involved.
- 2) This device **MUST** be grounded through a permanent wiring system or an equipment grounding conductor.
- 3) This device is only compatible with vehicles that meet the corresponding charging standards.
- 4) Do not install or use the charger near flammable explosive, or combustible materials, chemicals, vapors and other hazard objects.
- 5) Incorrect installation and testing of the device could potentially damage the vehicle's battery, components and/or the device itself.
- 6) Children should be supervised when around this equipment.
- 7) Do not use the charger if it is defective, appears cracked, frayed, broken or damaged.

- 8) Do not use the charger when the charger is exposed to severe rain, snow or other severe weather.
- 9) Do not forcefully pull the charging cable, damage it with sharp objects, put fingers or insert foreign objects into any part of the charging connector.
- 10) Do not operate the charger outside its operating temperature range of -22°F to 122°F (-30°C to 50°C).

- 11) Ensure the charging cable is positioned so it is not stepped on, tripped over, or subjected to damage or stress. Do not close a garage door on the charging cable.
- 12) Do not attempt to repair or service any part of the device yourself, the charger contains no field serviceable parts. If the device requires servicing, contact Meter.
- 13) When transporting the charger, do not subject it to strong force, or otherwise pull, twist, tangle, drag or step on the device.

### **Important**

Under no circumstances will compliance with the information in this manual relieve the user of his/her responsibility to comply with all applicable codes or safety standards, This document describes the most commonly used installation and mounting scenarios. If situations arise in which it is not possible to perform an installation following the procedures provided in this document, contact Meter. Meter is not responsible for any damages that may occur resulting from custom installations that are not described in this document or for any failure to adhere to installation recommendations.

### **No Accuracy Guarantee**

Commercially reasonable efforts were made to ensure that the specifications and other information in this manual are accurate and complete at the time of its publication, However, the specifications and other information in this manual are subject to change at any time without prior notice.

### **FCC Note**

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 B 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 approcher à 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.*

## 2. Product Overview

This manual applies to Aries Series EV Chargers.

### 2.1. Product Specifications

Model*1	Aries.A2-48US Aries.A2-48TS	Aries.A2-40US Aries.A2-40USN Aries.A2-40TS Aries.A2-40TSN	Aries.A2-32US Aries.A2-32USN Aries.A2-32TS Aries.A2-32TSN	Aries.A2-16US Aries.A2-16USN Aries.A2-16TS Aries.A2-16TSN
Basic Information				
Rated Power	11.5 kW (Max)	9.6 kW (Max)	7.6 kW (Max)	3.8 kW (Max)
AC input				
Rated Voltage	Single phase:208Y/240 VAC±10%, L+L+PE			
Rated Current	48 A	40 A	32 A	16A
Rated Frequency	50/60 Hz			
Protection				
Means of Disconnect	External branch circuit breaker			
Leakage Protection	Integrated CCID20			
Other Protection	Over Voltage Protection, Under Voltage Protection, Surge Protection, Over Temperature Protection, Leakage Protection, Overload Protection, Grounding Protection.			
User Interface &Control User Interface				
User Interface	LED indicators			
User Authentication	APP/RFID			
Communication				
Network Interface	WIFI/ Bluetooth			
Environmental*2				
Storage Temperature	-40°F to 158°F(-40°C to 70°C)			
Operating Temperature	-22°F to 131°F(-30°C to 50°C)			

Humidity	5% ~ 95% Non-Condensing			
Altitude	6,560 ft (2,000 m)			
Station Enclosure Rating	Type 3R			
Mechanical				
Dimension (HxWxD)	13.90×6.22×5.16 in (353x158x131 mm)			
Weight (including packaging)	10.8 lbs(4.9 kg)	9.92 lbs(4.5 kg)	9.04 lbs(4.1 kg)	7.94 lbs(3.6 kg)
Cable Length	16.4 ft(5 m)			
Standards and certification				
Certificate	UL2231-1, UL2231-2, UL2594, NEC Article 625			
EMC compliance	FCC Part 15 Class B			
Charging Interface	SAE J1772 Type1 Plug( product model contains "US" or "USN"); NACS Plug (product model contains "TS" or "TSN")			

\*1 Products with the code "US" in the model number have an interface standard of J1772 Type 1, while products with the code "TS" in the model number have an interface standard of NACS. If the product model contains "N", it indicates that the product is equipped with line (19.7in.) as AC input wires.

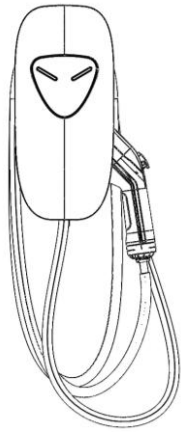



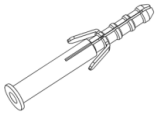


- \*2 When the ambient temperature of the operating environment is above 50°C, the EV charger will have a derated output.



### 3. Verify Contents

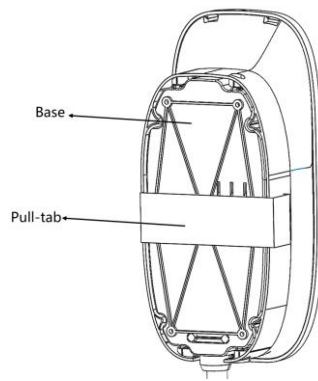
What is in the box?

No.	Component Name	Quantity
1	EV Charger, with Plug and charging cable 16.4ft (5m)	1
2	Position Cardboard	1
3	RFID Card	2
4	User Manual	1
5	Expansion Pipe (Ø6X60)	4
6	ST4.8x50 Screw (equip with gaskets)	4
7	M4x12 Screw	4

①	②	③
		
	④	⑤
		
⑥	⑦	
		

#### NOTICE

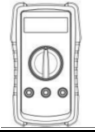

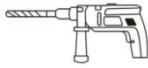
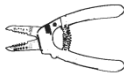


**Note 1:** No. 3 adheres to No. 4 and is placed inside the box. No. 5, No. 6 and No. 7 are placed inside the base. As shown in the following figure, you can see No. 5, No. 6 and No. 7 after pulling open the pull-tab (which is only used for opening the base and should be removed after the base is opened).



**Note 2:** If there is a shortage in the quantity of any item or if any items are missing, please contact the seller at once.

## 4. Tools Needed

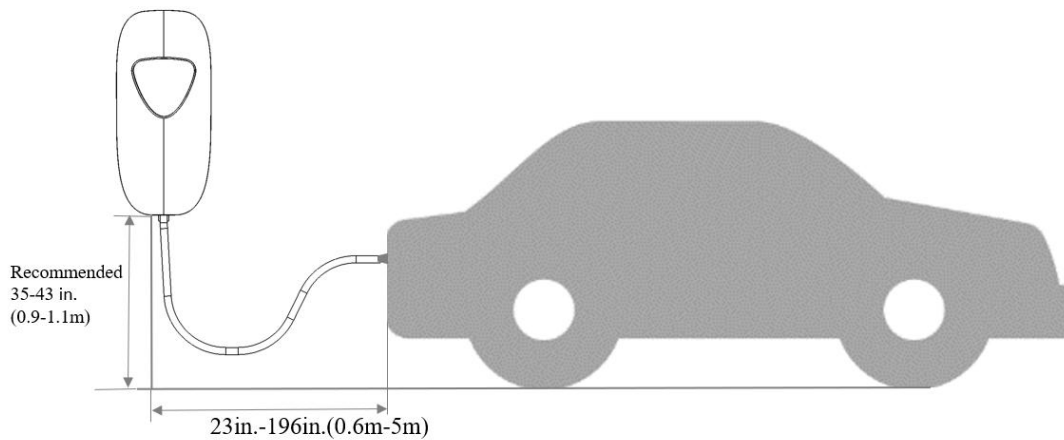
What do you need to prepare?

No	Tool Name	Diagram	Specification
1	Multi-meter		-
2	Philips head Screwdriver		PH2x150mm PH3x250mm
4	Electric drill		Ø6
4	Wire Cutter/Stripper		-
5	Hammer		-
6	Copper-Cored Wire (input wires)		Recommend no less than L1/L2 6AWG+PE 8AWG

## 5. Location Requirement

Select an optimal mounting location for safe operation, long service life and expected performance.

- Ensure the location allows the charging cable to reach the vehicle's charging port while providing sufficient slack.
- Ensure that the installation surface is solid enough to bear 4.5 times the weight of the charger and is suitable for the dimensions of the charger.
- Ensure the mounting structure where the charger is installed comply with local/national standards and guidelines.



Installation diagram



### NOTICE

**Note 1:** Recommend that the height of the charger is within the range of 35 to 43 inches above ground and the distance from charger to the vehicle is within the range of 23 to 196 inches.

**Note 2:** Outdoor installation is an option, be sure to prepare an outdoor-rated, weather-resistant electrical outlet or hardwired installation.

## 6. Mount EV Charger

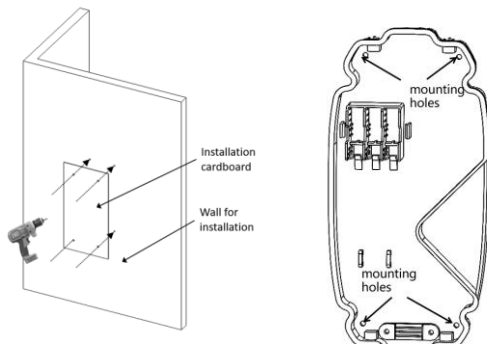
### **DANGER**

**RISK OF SHOCK!** Turn off the circuit breaker.

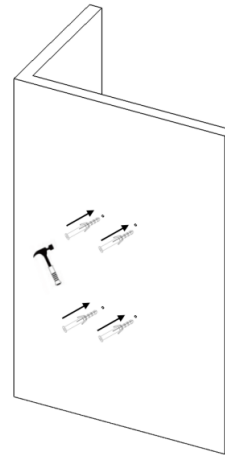
Do not restore power to the outlet until installation is complete.

Failure to follow these instructions could result in shock or electrocution.

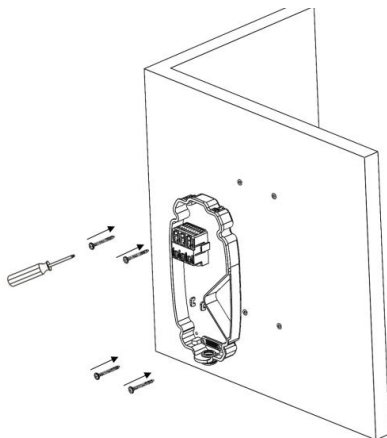
**Step1:** Drill holes with Position Cardboard or make positioning marks through the four mounting holes of the Base, and then drill holes. The wall should be sturdy enough, such as a concrete or brick wall.



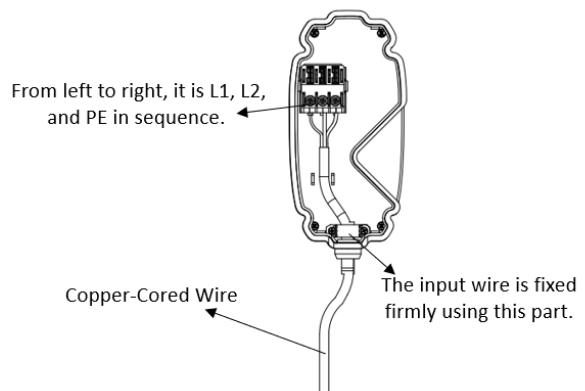
**Step2:** Install Expansion Pipes (4xM6x60mm)



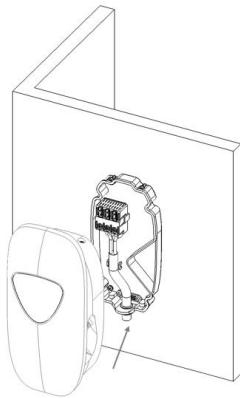
**Step3:** Install the base of the AC charging pile and fix it with four ST4.8\*50 screws.



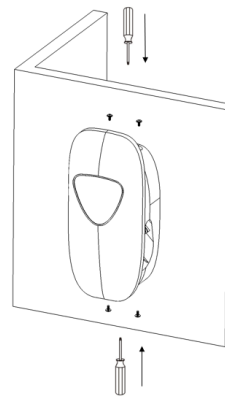
**Step4:** The cable passes through the rubber component and then enters, after which it is connected to the installed cable.



**Step5:** Press the shell onto the base.



**Step6:** Use four M4\*12 screws to fix the shell onto the base from the upper and lower ends of the shell. The mounting holes have the function of retaining the screws. When disassembling, there is no need to completely remove the screws from the mounting holes, so as to prevent the screws from being accidentally lost.



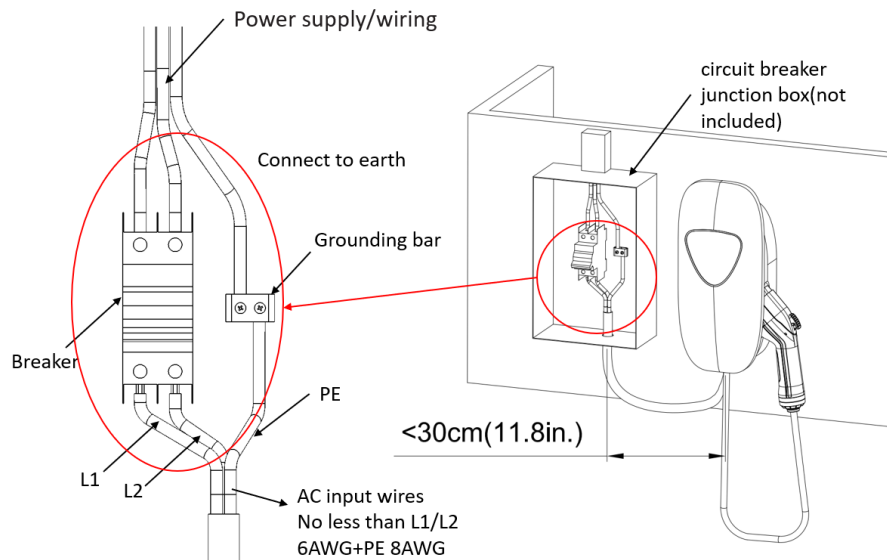
**Note:**

1. Power input connection recommendation

AC input wires are recommended adopt single-strand multi-core copper cable. The applicable ambient temperature range is from -30°C to 105°C, and the rated voltage is 600V.

AC input wires are hardwired, and ensure the electrical panel supports a 208/240V dedicated circuit with a new, dedicated two-pole circuit breaker, The rated current of the circuit breaker and the AC input wires shall be at least 1.25 times the rated operating current. The voltage between the wires (L1 and L2) must be 208/240V. Use copper conductors by no less than 6AWG (13mm<sup>2</sup> to 17mm<sup>2</sup>, outer diameter 16mm to 20mm).

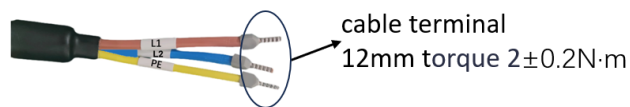
Whether the AC input wire is provided with the product or by the user himself/herself, it is recommended that the distance between the AC input wire and the circuit breaker junction box should not be greater than 30 cm(11.8in.).



Power input connection diagram

## 2. AC input wires torque recommendation

AC input wires have been applied as following, the tensile resistance of the single-strand multi-core copper cable after connection is 300N.



## 3. 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. If it should malfunction or break down, grounding provides a path of least resistance for electric current to reduce the risk of electric shock.

## WARNING

**RISK OF SHOCK!** Comply with local electrical safety laws and regulations, use certified power distribution box and circuit breaker, ensure that no live conductor can be touched after installation, and lock the cover to prevent accidental opening of the cover and electric shock. Keeping the Wall Box Key in a place where children cannot reach it. The charger LED ring should light up in green. If the LEDs are not lighting, power off the circuit at the circuit breaker and contact your electrician to ensure proper electrical installation.

## 7. Registering and Connecting Your Charger

After the equipment is installed, connect the charging device. If you choose to use the card - swiping method, you can directly start charging by swiping the card. If you opt for the APP method, follow the steps below.

### 7.1. Preparation Tools

Scan the QR code below using your smartphone or tablet, download the app, log in, and follow the on-screen instructions to create an account and register your charger. Once you have created your account, launch the app and follow the on-screen instructions for connecting to and registering your charger.



#### 1. Install the App on Your Mobile Device

Search for "Smart Life" in the Apple App Store or other app markets, or scan the QR code below to download the app.

#### 2. Enable Wi-Fi and Bluetooth on Your Phone

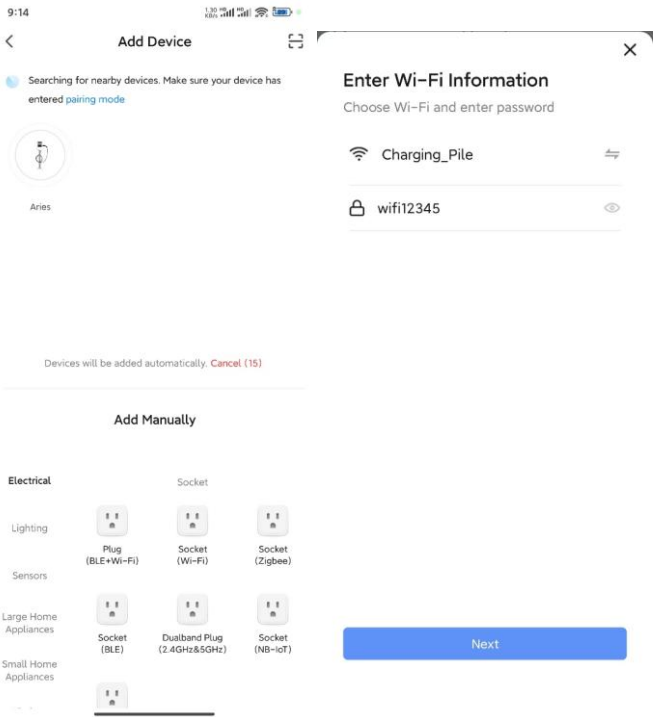
### 7.2. Device Connection

Manual Setup - Wi-Fi Device - Wi-Fi Quick Connect

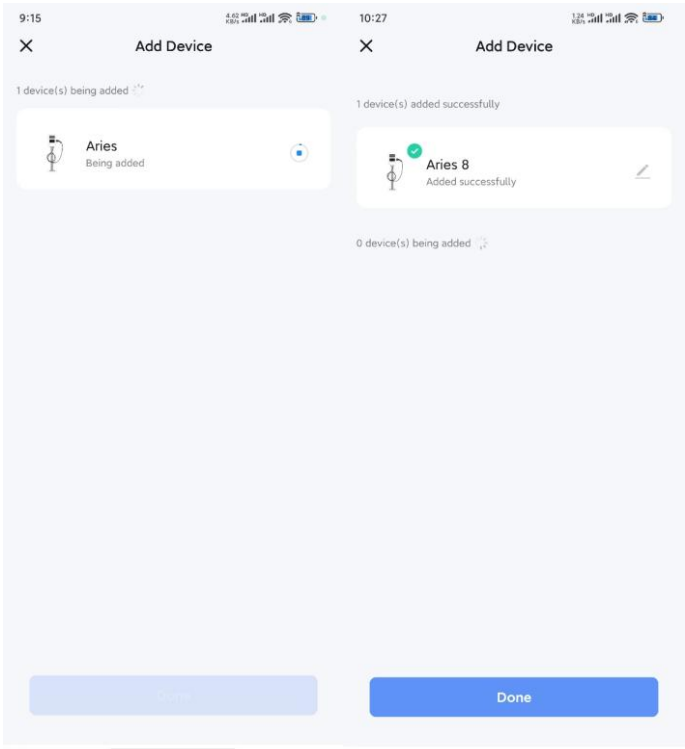
1. Use Wi-Fi Quick Connect mode (default mode) for network configuration.

The device enters pairing mode upon initial startup. If already configured, forcibly disconnect and hold the reset button for 8 seconds until the LED flashes green 3 times (indicating factory reset). Then, tap the "+" icon in the app's top-right corner to add a device.





2. Select the target Wi-Fi network and wait for configuration to complete.



## 8. Moving and Storage Instructions

Your EV Charger should never be lifted or carried by the power supply cord or by the EV cable. Always lift or carry your charger by lifting up the charger's enclosure. The charger is only to be used for fixed installations and cannot be used as a portable device. Store your EV Charger in a dry location, and within the storage temperature of -40°F to 158°F (-40°C to 70°C).

## 9. Troubleshooting

### 9.1. Indicator Status

LED	Display	Status	Handling Measures
Green Light	Breathing	Gun not inserted, system in normal - standby state	Insert the charging gun to start charging.
	Flashing quickly	Charge start	No action required.
	Flashing slowly	Charging in progress	
	Steady on	Charging gun inserted /Charging complete	Unplug the charging gun if charging is finished.
Red Light	Steady on	Network reset, the gun is not connected and the card swiping duration is $\geq$ 8s	Wait for 5 seconds and then power it on again. If the fault persists, disconnect the power supply and contact the customer service.
	Fast or slow flashing	Equipment failure	
Yellow Light	Flashing quickly	Updating	No action required.
	Steady on for 3s	Update success	

## 10. Appendix

### 10.1. Quality Assurance

In the event of a defect during the warranty period, Meter will provide free of charge service or replace the product with a new one.

#### Service and Repair

- During the warranty period, the customer shall provide the product purchase invoice and date. In addition, the trademark on the product shall be undamaged and legible. Otherwise, Meter has the right to refuse to honor the quality guarantee.
- If the charger fails during the warranty period due to a defect in materials or workmanship, Meter will, at its option, repair or replace the charger at no charge to the original end-user customer.
- The original end-user customer is responsible for shipping the charger to Meter's service center for warranty service. Meter will return the repaired or replacement charger to the original end-user customer at its own expense.

#### Exclusion of Liability

- In the following circumstances, Meter has the right to refuse to honor the quality guarantee:
- The free warranty period for the whole machine/components has expired.
- The device is damaged during transport.
- The device is incorrectly installed, refitted, or used.
- The device operates in harsh conditions beyond those described in this manual.
- The fault or damage is caused by installation, repairs, modification, or disassembly performed by a service provider or personnel, not from Meter.
- The fault or damage is caused by the use of non-standard or non-Meter components or software.
- The installation and use range are beyond the stipulations of relevant international standards.
- The damage is caused by unexpected natural factors.
- For faulty products in any of the above cases, if the customer requests maintenance, paid maintenance service may be provided based on the judgment of Meter.

### 10.2. Firmware Update

The charger actively maintains security updates within 3 years after its first launch.

The operation and maintenance personnel will check for firmware updates at least every six months and record them in the corresponding firmware version checklist.

In addition, any updates to the charging station will be pushed to you through the Meter's APP.

### **10.3. Version Information**

This product is currently at Version 1.0.0. We are committed to continuous improvement and will release updates to enhance performance, add new features, and fix any issues that may arise. Please check our official website or contact our support team for the latest version information and updates.

### **10.4. Contact Information**

In case of questions about this product, please contact us.

We need the following information to provide you with the best assistance:

- Model of the device
- Serial number of the device
- Fault code/name
- Brief description of the problem

For detailed contact information, please visit <http://www.mitertec.com/contact>.