Installation Instructions

EV CHARGER

AC Charger / EVC-A-48A-MP-BT

DIRECTORY

IMPORTANT SAFETY INFORMATION

Read all instructions before using this product. Save these instructions. EV CHARGER features built-in Type A RCD .
This manual contains important instructions for EV CHARGER that shall be followed during installation, operation, and maintenance. Please review all warnings and cautions before installing and using the Wall Connector.

WARNING: Please thoroughly review all instructions before using this product.

WARNINGS

WARNING: These instructions must be adhered to during the installation, operation, and maintenance of the unit.

WARNING: EV Charger should only be installed by a qualified electrical professional.

WARNING: When used near children, ensure constant supervision of this device.

WARNING: Do not insert fingers into the electric vehicle connector.

WARNING: Don't open or remove the front of EV Charger housing when the main power is on. With the power on,open or remove the cover,or operate、maintain、connect the charger will be a safety hazard and could result in injury.

WARNING: The charger's socket (including the charging cable) and the housing must be regularly inspected for damage.

WARNING: If the charger is damaged, it must be switched off immediately and replaced.

WARNING: Charger repair or replacement should only be carried out by an approved installer.

WARNING: Do not remove safety symbols, warning labels, nameplates, signs, or markings.

CAUTIONS

CAUTIONS: When installing for the first time, switch off the power supply before connecting to the charger input. Do not connect with live power.

CAUTIONS: Make sure to turn off the power to EV Charger when operating, maintaining,or connecting the charger to main power.

CAUTIONS: Modifying the charger without authorisation will poses a safety risk and void your warranty.

CAUTIONS: Your EV Charger should only be connected to electric vehicles that are suitable for charging with EV charger. It should not be used for other loads such as power tools.

CAUTIONS: Always follow the electric vehicle manufacturer's instructions when using EV Charger.

CAUTIONS: EV Charger is not suitable for use in environments that pose an explosion risk due to ignition.

CAUTIONS: The maintenance spare parts used for this charger,services or repairs related to warranty should be carried out by service technicians who are authorized or confirmed from Gopro.

CAUTIONS: This product is covered by a 2-year warranty. During this period, we will provide replacement and repair in free when it is determined to product's quality issue.

CAUTIONS: Updates are required when software is updated.

PRODUCT OVERVIEW

Environmental Conditions for Use

The environmental conditions for product operation are shown in the table below:

Environmental parameters				Environmental conditions for use	Transport environment condition	Storage conditions	Remark
Item		Parameters	Unit				
Climatic conditions	Temperature	Lowest	℃	-25	-25	-40	/
		Highest	℃	50	65	70	
	Humidity	Lowest relative humidity	%	5	5	5	/
		Highest relative humidity	%	95	95	95	
		Condensation	Yes/No	No	No	No	
	Altitude	Lowest	m	0	0	0	> 2000m Capacity reduction use according to 5.11.2 in GB/T 3859.2 -93
		Highest	m	2000	2000	2000	
	Atmospheric pressure	Lowest	kPa	80	80	80	/
		Highest	kPa	110	110	110	
	Protection			The PCBs, connectors and other circuits in the module device should be treated against moisture, mildew and salt spray. Among them, the anti-salt spray corrosion ability meets the requirements of Table 9 in GB/T 4797.6-1995, so that the module device can operate normally in an outdoor environment with humidity and salt spray.			

Input Basic Characteristics

	Rated Value	Description
Input Voltage	208-240Vac	L1/L2/PE
Input Power	11.5KW/48A	
Mains Frequency	60Hz	

Protection function

Item	Indicator Requirements	EV Charger Action
Overvoltage Protection	>264V	When the voltage is higher than the protection voltage, the charger stops working and an error indicator light is displayed. When the voltage drops to 264V, the charger will automatically resume normal operation.
Undervoltage Protection	<204V	When the voltage is lower than the protection voltage, the charger stops working and an error indicator light is displayed. When the voltage rises to 204V, the charger will automatically resume normal operation.
Overcurrent Protection	≥110% rated output	Exceed 110% rated current for 3s,or exceed 125% rated current for 1s, the charger stops working and displays an error indicator light.Need to power off to check the power input fault, and restart the charger.
Leakage Protection	CCID 20	When leakage is detected, power off the charger.After exclude the leakage fault, restart the charger.
Grounding Protection	Yes	When the ground cable is disconnected or abnormal, the charging pile stops working and displays an error indicator light.Need to connect PE cable, then restart the charger.
Over Temperature Protection	>80℃	When the temperature exceeds the protection temperature, the charger will stop working and an error lighting indicator will be displayed. When the temperature drops to 60℃, the charger will automatically resume normal operation.
Lightning/Surge Protection	Yes	When a lightning strike/surge is detected, the charger is powered off.After troubleshooting, restart the charger.
Short Circuit Protection	No	/
Welding Protection	Yes	After detecting the relay bonding , the charging station is powered off. After troubleshooting, restart the charging station.

Communication Mode

Item	Communication Configuration	Remark
WiFi/Bluetooth	Yes	TuYa APP
Ethernet	N/A	/
4G (SIM)	N/A	/
RFID	Yes	/
OCPP1.6J	N/A	/

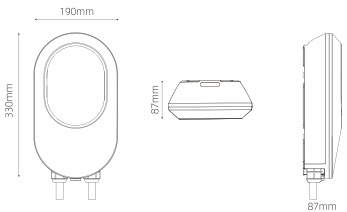
Machine Parameters

Item	Parameter	Remark
Startup Method	APP Control	/
Cooling Method	Natural Air Cooling	/
Charging Gun	SAE J1772（TYPE 1）	/
Cable Length	25ft	/
Installation Method	Wall Hanging	/
Installation Location	Indoor/Outdoor	/
Housing Material	PC with Anti-UV Treatment	/
IP & IK	TYPE 3R/IK08	/
Certification	ETL	/
Standard Compliance	UL 2594, UL2231-1, UL2231-2	/

Product Appearance

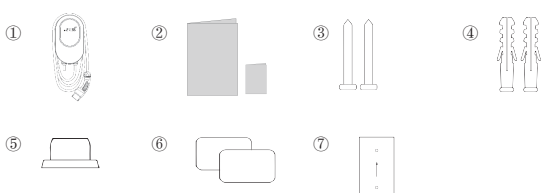



Product Size



INSTALLATION STEPS

Check the box to ensure you have this installation guide and these parts:

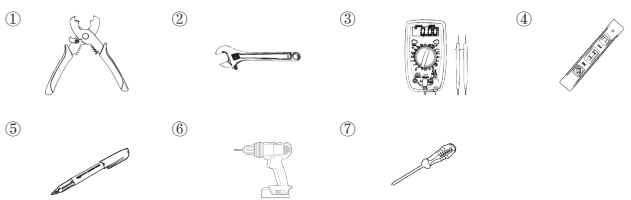


No.	Product Name	Quantity	Description
#1	AC Charger	1	With attached input power cable and output charging cable.
#2	User Manual Installation Instructions	2	For instructions
#3	Screws	2	For installing the AC Charger to the wall/structure.
#4	Expansion Rubber Sleeve	2	For Lock Screw to the wall/structure.
#5	Screw Cover	1	For covering screw.
#6	Standard RFID Cards	2	Control the charger start/stop after authorizing the Administrator RFID Card.
#7	Mounting Template	1	For easy drilling of 2 screws holes for AC Charger.

Gather Tools

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



Note: The above tools are very important, please gather them all.

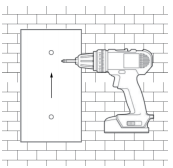
Plan The Mounting

STEP 1

Select the appropriate mounting location with electrical capacity:

1.Ensure the owner has chosen a mounting location that allows the charging cable to reach the car's charging port while still providing slack.
2.The device must be anchored into mounting such as 80mm x 130mm stud or a solid wall.
3.The device shall be mounted at height between 600 mm and 1200 mm from ground.

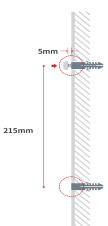
STEP 2



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.

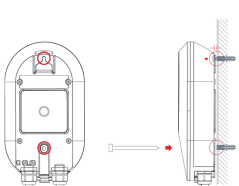
Mount the Charging Station

STEP 1



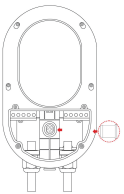
Nail #4 two expansion rubber sleeves into the holes and nail #3 one screw to the top expansion rubber sleeves. The distance of cover of screw and wall is about 5mm.

STEP 2



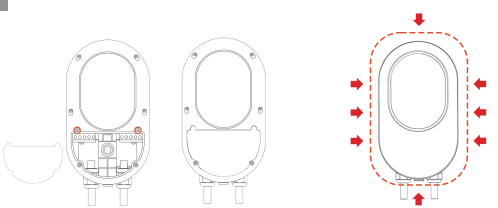
Align the rear notch of charger with holes and hang the top notch on the top screw, fit the #3 screw to the bottom hole.

STEP 3



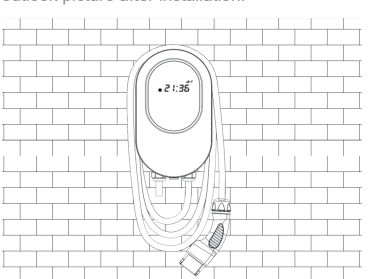
Cover screw with #5 screw cover.

STEP 4

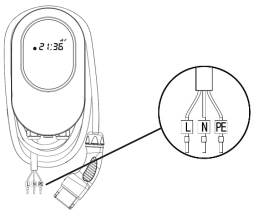


STEP 5

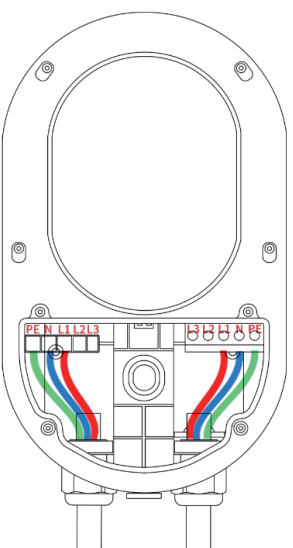
Overall outlook picture after installation.



STEP 6



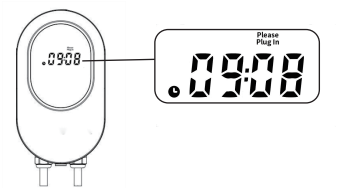
For safe use of electricity, please set circuit breaker protection in the input part of EV Charger The wiring is not complicated, just need to follow the instructions below: Connect the L1 lead to the grid L1, connect the L2 lead to the grid L2,



Operating Steps with Plug and Charge

STEP 1

Standby Mode: After being powered on, the lights “Please Plug In” light.

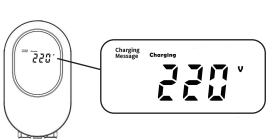


STEP 2

Plug the Charging Connector: Please plug the charging connector into the vehicle charging inlet.

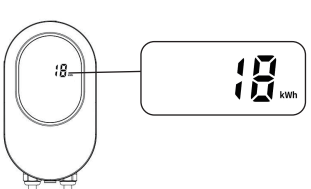
STEP 3

Charging: The light (Charging) lights, charging is in process. The screen will light circularly voltage, currents and kWh. If the light (fault) is on, plug the vehicle connector again.
If the light (fault) is still on, please refer to “9.2 Error and warning



STEP 4

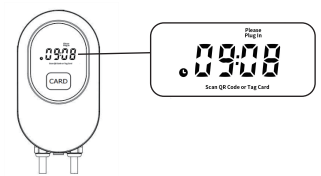
Charging finished: When the charging is finished or swipe your RFID card, the number of total kWh lights. Please pull out the charging connector.



Operating Steps with RFID

STEP 1

Standby Mode: After being powered on, the lights “Please Plug In” and “Scan QR Code or Tag Card ” light.



STEP 2

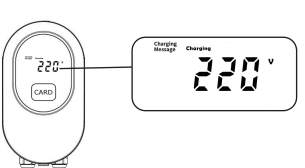
Ready to charge:
Please plug the charging connector into the vehicle charging inlet.

STEP 3

Swipe the standard RFID Card:
Please plug the charging connector into the vehicle charging inlet and swipe the RFID card.

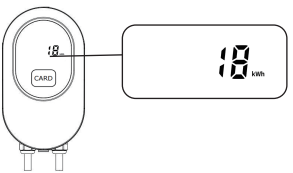
STEP 4

Charging: The light (Charging) lights, charging is in process. The screen will light circularly voltage, currents and kWh.
If the light (⚠) is on, plug the vehicle connector again.
If the light (⚠) is still on, please refer to “9.2 Error and warning message” .

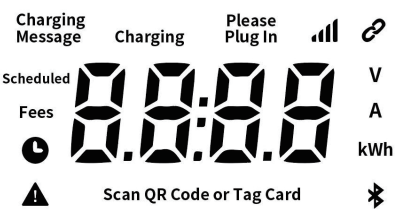


STEP 5

Charging finished: When the charging is finished or swipe your RFID card, the number of total kWh lights. Please pull out the charging connector.



The Digital Screen



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

WARRANTY AND MAINTENANCE

- The warranty period for this charger is two years.
- 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 situations, the charger shall be subject to the above warranty terms:
- The warranty certificate cannot be provided or the contents of the warranty certificate are modified or inconsistent with the label indication of the repaired product.
- Those who are unable to provide valid proof of purchase.
- Those who exceed the manufacturer's specified warranty period.
- Those who damage the product due to not following the product service instruction for use, maintenance and storage.
- Damage or malfunction caused by external object entering. Unauthorized repair, disassembly or modification.
- Damage caused by force majeure (such as lightning, excessive voltage, earthquake, fire, flood, etc.).
- 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 into the equipment.
- 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 solely, and no other express or implied warranties shall be made (including the implied warranties of merchant ability, particular and applicable reason- ableness and adaptability, etc.) whether in the contract, civil negligence, or other
- aspects, the Company shall not be responsible for any special, incidental or consequential damages.