

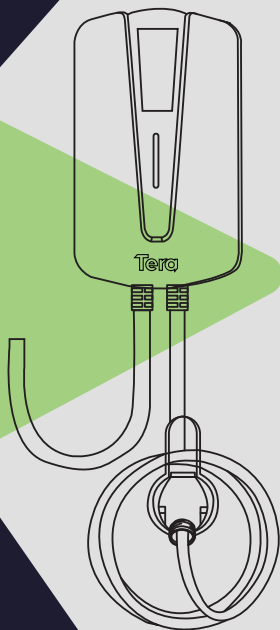
Tera

Model: Q8-US

Home Electric Vehicle Charger

User Manual

Ver.E01.1.01



EV Charger

Current: 32A 40A 48A



Temperature
Protection



Auto
Repair



Efficient
Charging



Protection
Level IP55



RCD



Big Size
Screen



Under Voltage
Protection



Over Voltage
Protection



Short Circuit
Protection



Earth Leakage
Protection





Lightning
Protection



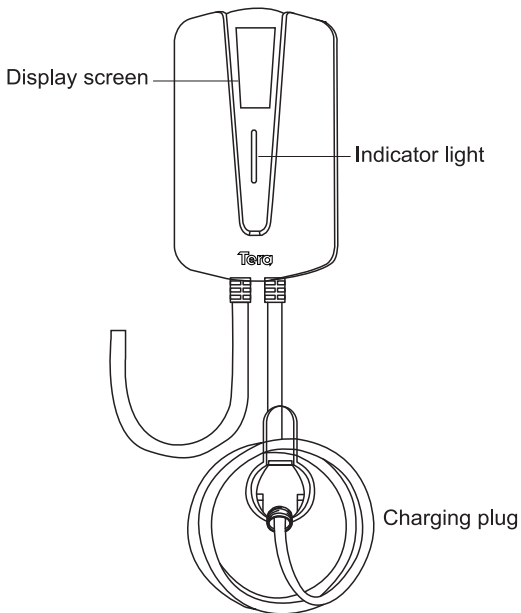
Over Load
Protection

Symbol Meaning

Symbol	Meaning
	<p>"Non-recyclable" Label: Found on the product, instruction manual, or packaging, this label indicates that electrical and electronic equipment, along with their accessories, must be disposed of separately from regular household waste. When discarded, treat these items as industrial waste to prevent potential accidents.</p>
	<p>Warning Sign: This symbol highlights potential hazards. Exercise caution to avoid personal injury that may result from improper procedures or incorrect operation. Actions associated with the "warning" sign should only be undertaken when the specified conditions are fully understood and met.</p>

The company is dedicated to the ongoing improvement and updating of its products. Both hardware and software may be subject to upgrades, and the information provided is subject to change without prior notice.

Product Overview



Appearance of AC EV Charger

Product Overview:

This product is an AC charging station primarily designed for electric vehicle charging. The charging station consists of the main body, a wall-mounting backplate, and other components.

The product adheres to industrial design principles, making it easy to install and use.

Exterior: Sleek and lightweight, with a variety of color options to suit different application scenarios.

Protection: Boasting an IP55 protection level (waterproof and dustproof), the charging station can withstand exposure to wind, rain, and sun.

Operation: The charger head features a one-button cover opening design, ensuring simple and convenient plug-and-play operation.

Safety: Enhanced safety measures include multiple protections, high-quality fireproof, waterproof, and dustproof materials.

Compatibility: With its compact size and powerful performance, the charging station is compatible with 99% of new energy vehicles.

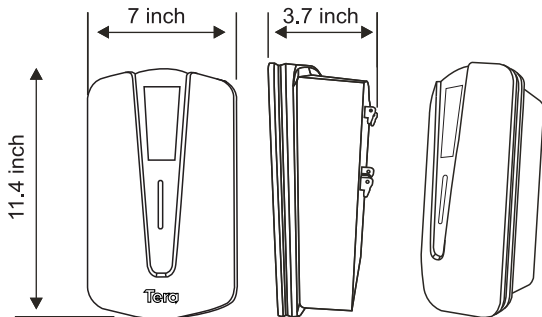
Quality:

The charging station uses pure, oxidation-resistant copper wiring that meets inspection standards and provides flame retardant impact resistance.

Dimensions

Size: 11.4 * 7 * 3.7 inch

Measurement Unit: inch



Product Parameter

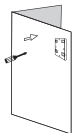
Charging Device	Rated Current	32A	40A	48A
	User Interface	Display screen, Indicator light		
	Cable routing	Bottom inlet wiring, Bottom outlet wiring		
	Dimension	Size: 11.4 * 7 * 3.7 inch		
	Input voltage	Level 1: 100-120V; Level 2: 200-240V		
	Input frequency	50/60Hz		
	Output voltage	Level 1: 100-120V; Level 2: 200-240V		
	Charging Wire length	15/20/25/30FT		
Protection Design	Over-current protection value	≥110%		
	Over-voltage protection value	270Vac for Level 2; 140Vac for Level 1		
	Under-voltage protection value	190Vac for Level 2; 90Vac for Level 1		
	Over-temperature protection value	176°F		
	Electric leakage protection value	30mA AC+6mA DC		

Environmental indicators	Work temperature	-86°F~122°F
	Work humidity	-5%~95% non-condensation
	Work altitude	<2000m
	Protection Level	IP55
	Cooling Model	Natural cooling
	MTBF	50,000 hours

Installation

1

Fix the screws and mounting plate to the wall.



2

Place the charging station onto the mounting plate attached to the wall.

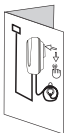


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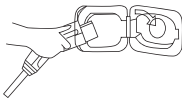
Assemble the anti-theft screw on the side.



Here are the usage steps:



1. Ensure that the charging box is connected to a power source.



2. Connect the electric vehicle to the charging box using the EV charging cable.



3. The vehicle will charge normally.

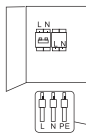


4. Unplug the device and wrap the cable around the hook.

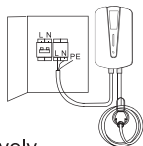
Note:

1. Once the vehicle is fully charged, the device will automatically stop charging.
2. Please read the instructions thoroughly before using the device.

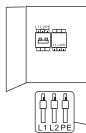
Follow these steps to wire the power for Level 1 charging



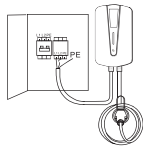
If a power distribution box is being used, make sure to connect the L (Line), N (Neutral), and PE (Protective Earth) ends of the input cable of the plug to the corresponding L, N, and PE ends of the circuit breaker respectively.



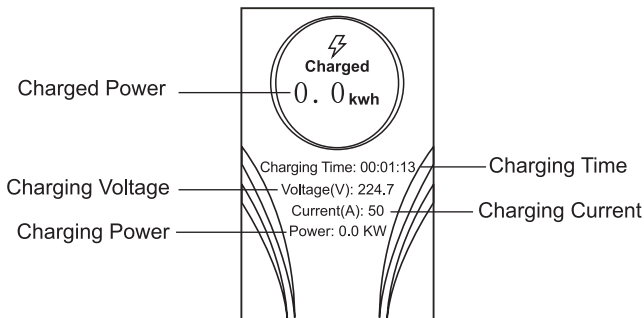
Follow these steps to wire the power for Level 2 charging



If a power distribution box is being used, make sure to connect the L1, L2 (Line 1 and Line 2), and PE (Protective Earth) ends of the input cable of the plug to the corresponding L1, L2, and PE ends of the circuit breaker respectively.



Display Screen Description



Warning And Cautions

For use only in an environment with an RCD residual current protector.

Do not use the device when the charging cable is damaged.

For electric vehicle charging only.

The product must be properly grounded when used.

It is strictly prohibited to step on the charging cable, pull the cable, bend the cable, or knot the cable.

Do not put your finger into the charging plug.

Do not connect the circuit by yourself without the guidance of a professional.

Do not use when the inside of the charging plug is wet.

Do not install by yourself before reading the installation instruction.

Do not use for any purpose other than electric car charging.

SPECIAL ATTENTION: Do not attempt to disassemble the device by yourself under any circumstances. Doing so may cause damage to the internal precision parts.

Fault Indicator Prompt

Working state	Red	Green	Blue
Power On (No Load)	/	Stays On	/
Insert the Plug(Uncharged)	/	Flashing	/
Charging Mode	/	/	Flashing
Charging Completed	/	/	Stays On
Leakage Protection	Flash for 1	/	/
Over Current Protection	Flash for 2	/	/
Ground Fault(ungrounded)	Flash for 3	/	/
Under/Over Voltage Alarm	Flash for 4	/	/
Relay Failure	Flash for 5	/	/
CP/CC Error	Flash for 6	/	/

Remark:

The device flashes a certain number of times at 200ms intervals to indicate an error, and then repeats this sequence in a continuous loop with 1s intervals.

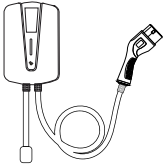
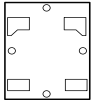
Troubleshooting

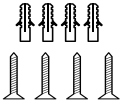


Problem	Causes	Possible Solutions
Excessive Leakage Current	Excessive Leakage Current	1. Please disconnect the leakage or over-current protection switch on the distribution box immediately.
		2. Please check whether the AC charger output line is damaged or has low impedance to the ground or a short circuit.
		3. Please inspect the inlet socket of the vehicle to ensure it is in good condition.
		4. Once the above issues have been addressed, please attempt to power on the system again. If the problem persists, please do not hesitate to contact us for further assistance.
AC Over-current	High Input Current	1. Please immediately disconnect the leakage/over current protection switch from the distribution box.
		2. Please check if there is a low impedance or a short circuit between the two output lines of the AC charger.
		3. After troubleshooting the issues mentioned above, please attempt to power the system on again. If the problem persists, please contact us for further assistance.

Ground Fault	Ground fault circuit interruption	1. Please immediately disconnect the leakage/over current protection switch from the distribution box.
		2. Please check whether the input/output line of the AV charger is properly grounded or not.
		3. After troubleshooting the issues mentioned above, please attempt to power on the system again. If the problem persists, please contact us for further assistance.
AC Under-voltage	Low Input Voltage	1. If the voltage drops below 190Vac for level 2 or 90Vac for level 1 for a brief period of time, the charger will go into standby mode and check the power network to restore itself to the normal voltage range. Once the voltage is within normal range, the charger will automatically resume charging.
		2. If the voltage in your area/community remains consistently low (below 190Vac for level 2 or 90Vac for level 1) for an extended period of time, please wait to use the charger until the voltage recovers back to the normal range.

AC Over-voltage	High Input Voltage	<p>1. If the voltage surpasses 270Vac for level 2 or 140Vac for level 1 for a short duration, the charger will enter standby mode and conduct a power network check to restore itself to the normal voltage range. Once the voltage is within normal range, the charger will automatically resume charging.</p>
		<p>2. If the voltage in the local area or community remains over 270Vac for level 2 or 140Vac for level 1 for a prolonged period, the user should refrain from using the charger until the voltage returns to the normal range.</p>
Relay Failure	Relay Failure or Adhesion	<p>1. Try restarting the charger and allow it to run its internal self-diagnostic and repair routines.</p>
		<p>2. If the problem persists even after restarting the charger, please do not hesitate to contact us for further assistance.</p>
CP/CC Error	Charger CP/CC Connection Error	<p>1. Please check whether the charging plug is securely and firmly connected to the vehicle's inlet socket.</p>
		<p>2. If the problem persists, please do not hesitate to contact us for further assistance.</p>

WHAT'S IN THE BOX

	
Charging Station x 1 Charging Plug x 1	Mounting Template x 1

 M3.5*35mm	 M3*10mm	 USER MANUAL
Wall Plug x 4 Long Screw x 4	Short Screw x 2	User Manual x 1