PORTABLE EV CHARGER

MODEL 22KW

Technical specifications, installation and operation manual.

- Adjustable Current
- IP66 Waterproof Rated
- Safe Plug Design
- Clear LCD Display
- Delayed Start Timer
- Leakage Protection
- Overheat Protection
- Overcurrent Protection
- Highly Flame Resistant
- Climate Pledge Friendly

Introduction

Welcome to the Earth EV family!

We extend our gratitude for choosing our AC Charging Point and for supporting Australian business. Your safety and satisfaction are our utmost priorities. Therefore, we urge you to thoroughly review this manual to ensure proper understanding of the device's operation before going ahead with installation, maintenance, or operation.

It is imperative to adhere to the safety instructions outlined in this manual to mitigate any potential risks of injury, damage to the device, or other hazards. Earth EV cannot assume responsibility for claims arising from failure to follow these safety measures.

This manual serves as a comprehensive guide for the installation, utilisation, and maintenance of the AC Charging Point. Installation procedures should exclusively be undertaken by qualified Electricians. While the text and illustrations within this manual offer general explanations of Earth EV's chargers and associated equipment, please be aware that actual products may differ slightly from the descriptions provided herein.

The Earth EV mobile app is a professional-grade electric vehicle charging management application available for iOS and Android devices. It serves as the primary interface for users to interact with their Earth EV chargers and manage their charging activities

1. Important

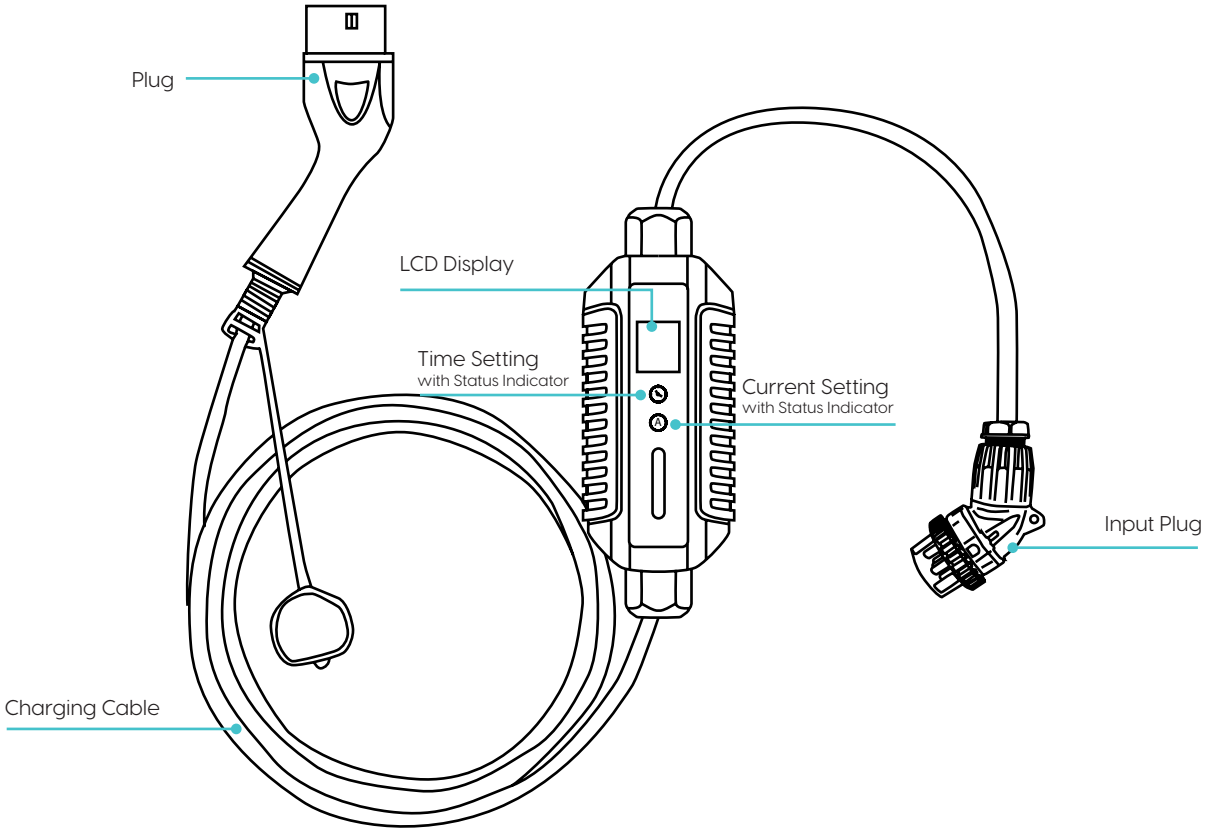
Read this User Manual before you start using the device!

Failure to comply with these instructions may result in injury, damage to the device, harm to the environment, or other serious issues. Keep this User Manual in a safe place together with the charging equipment.

2. Safety

- Use the EV portable charger only within the specified operating parameters.
- The EV portable charger must be used in the design-specified socket, and the socket outlet is fixed. Do not use the extension line.
- Do not connect the EV portable charger to a power outlet that is not properly grounded.
- Do not use the EV portable charger's adapters in any outlet for which they are not designed.
- Do not attempt to open, disassemble, repair, tamper with, or modify the mobile connector. The connector is not user serviceable. Contact us for any issues.
- Do not use (or discontinue using) the EV portable charger if it is defective, appears cracked, frayed, broken, damaged, or fails to operate.
- Do not disconnect the EV portable charger from the wall outlet when the vehicle is charging.
- Do not plug the EV portable charger into a damaged, loose or worn power outlet. Ensure that the prongs on the EV portable charger fit snugly into the outlet.
- Do not use the EV portable charger when either you, the vehicle, or the EV portable charger is exposed to severe rain, snow, electrical storm, or other inclement weather.
- Do not immerse the charging equipment in water, and do not directly expose it to water spray (eg. from high-pressure cleaners or garden hoses).
- Do not touch the EV portable charger's end terminals with sharp metallic objects, such as wire, tools, or needles. Do not forcefully fold any part of the EV portable charger or damage it with sharp objects. Do not insert foreign objects into any part of the EV portable charger.
- Protect the EV portable charger from moisture, water, and foreign objects at all times. If any exist or appear to have corroded or damaged the EV portable charger, do not use the EV portable charger.
- Clean the EV portable charger only when it is completely disconnected from the power grid and the vehicle. Use a cloth included for cleaning, afterward carefully dry off all parts.
- Do not let children play with the packaging material or the charging equipment.

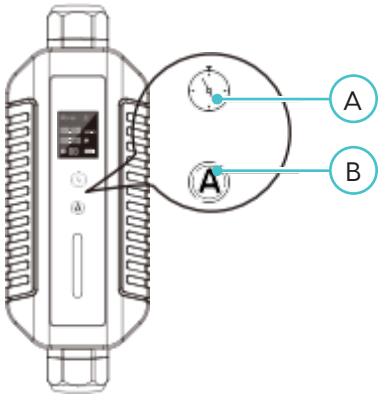
3. Product Diagram



4. Specifications

Model	22KWPLEDT
Voltage	4OOV
Power	22kW Max (32A 3 Phase)
Current	6A/1OA/13A/16A 2OA/24A/32A
Operating Temperature	-25°c to +5O°c
Standard	IEC 621 96-2 , IEC 62752, RCM
Certification	CE by TÜV
Waterproof	IP 66 (Control Box) IP 54 (Charging Plug)
Warranty	Charger comes with a standard 3-year warranty. Activate your FREE extended 2-year warranty (total 5 years) by registering your product.

5. Setup Instructions

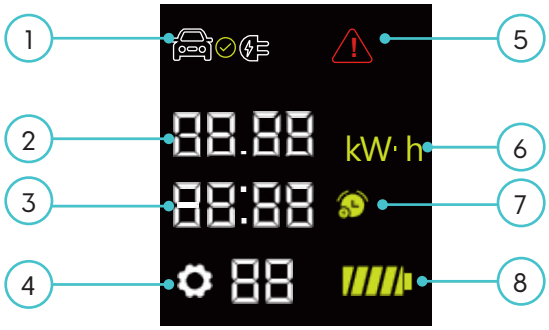


A. Time button: Touch once to set the charge start time (O.5h-5h) Press 3S to reset.

B. Current button: Touch once to choose the current

*In non-charging mode, click the current button and time button at the same time for more than 3 seconds to clear the accumulated power.

In charging mode, press the current button and time button at the same time for more than 3 seconds to stop charging. Repeat this operation to resume charging.

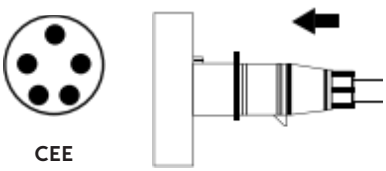


LCD Screen Information

1. EV and Power Connection
2. Power Charged
3. Time or Delay Charging
4. Current (Selected)
5. Fault Alarm
6. Unit of Power
7. Delay Charging Icon
8. Charging Cycle Display

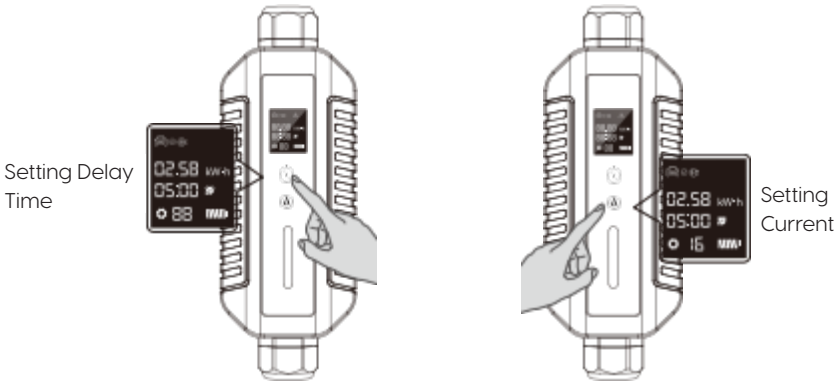
6. How to Use

Step 1: Connect the EV portable charger plug to the appropriate power socket.

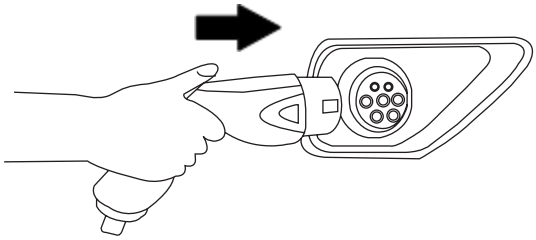


CEE
(3-phase)

Step 2: Tap the Current or Time button to set the current and delayed charging time if desired.



Step 3: Connect the portable charger cable to your EV to start charging.



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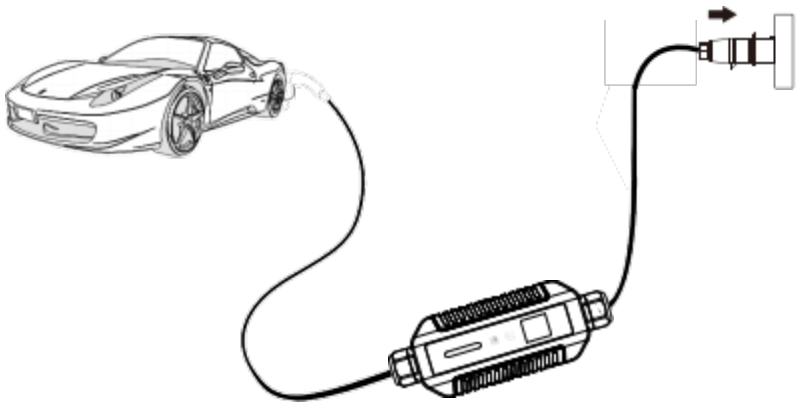

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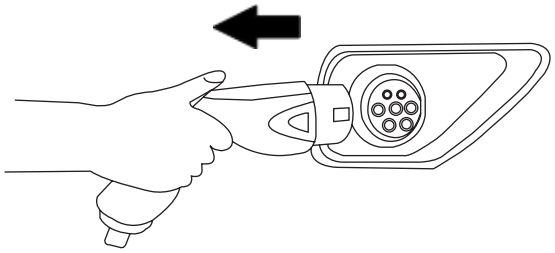

Step 3: Connect the portable charger cable to your EV to start charging.

Step 4: Check the display to make sure charger goes on normally.

Step 5: Remove the plug from the socket when charging finishes.

Step 6: After charging is complete, organise the charging cable, hook it on the cable bracket included, or store it in the storage bag for convenient use.

Tips for Bracket Installation

1. Drill in the wall according to the hole's position on the EV charging cable bracket, and then install expanding screws.
2. Align the holes between the EV Charging cable bracket and the wall, then lock the screws into the corresponding holes, now the Bracket is fixed well.

7. Operational Information

7.1 Error code and Troubleshooting

If there is a fault, the charger will stop outputting and not charging. start charging again after checking and clearing the fault.

LED Status	Reason	LCD Error Code	Solutions
Flash 1 time	RCD leakage protection	O1	Power off and check the electric car and charger
Flash 2 times	Over current	O2	Power off and check the electric car
Flash 3 times	Ground (PE) Disconnect	O3	Power off and check the distribution grid
Flash 4 times	Over voltage/Under voltage	O4	Power off and check the distribution grid
Flash 5 times	Welding Fault	O5	Please contact the manufacturer
Flash 6 times	CP voltage error	O6	Check if the connector is tight
Flash 7 times	Over temperature	O7	Check shell heat dissipation
Flash 8 times	Diode loss	O8	Check EV CP diodes

Real-time monitoring has welding detection , temperature detection , PE Connection detection , over-voltage detection , over-current detection , and CP voltage, any failure will be displayed according to the above table.

7.2 Maintenance and Cleaning

Cleaning

- Disconnect the EV Portable Charger from the power socket and the vehicle.
- Only clean the outside of the device. Use a soft, slightly damp, or anti-static cloth.
- Do not use any detergents or chemical agents to clean the device.

Maintenance

- The connectors are sensitive, high-performance parts, and their contacts must always be kept clean and dry. Corrosion on the contacts can lead to impaired function, overheating, or defects in the device.
- If plugs get wet, allow them to dry before using them. Always fit the equipment with the protective caps when not plugged in.

Repairs/Modifications

- Any repairs and/or modifications may only be performed by the manufacturer. Never open the housing, and do not make any changes to the EV charger and control box in any way by yourself.

7. Operational Information

7.3 Symbol Explanation (in this User Manual and/or on the charging equipment)

By using the CE marking, the manufacturer or distributor declares that the product meets all applicable European regulations and standards (Declaration of Conformity of the European Community).

This device and the manufacturing plants where it is produced have been inspected and approved by TUV Rheinland. The certificate verifies the complete fulfillment of the standards on which the product is based.

Products marked with this symbol meet the requirements of the EU Directives restricting the use of certain hazardous substances in electrical and electronic equipment.

This symbol indicates the lowest possible temperature in °C at which the device may be operated.

Danger of electrical shock from hazardous voltage if used improperly.

This symbol indicates general danger or hazard. Read the User Manual to familiarize yourself with the charging equipment.

Climate Pledge Friendly is the trusted third-party certifications highlight products that meet sustainability standards and help preserve the natural world.

7. Operational Information

7.4 Product Warranty

The warranty provided herein applies solely to the designated Earth EV's Electric Vehicle (EV) charging devices and software as a service solutions ("the product").

1. Warranty Period

The warranty period for the Earth EV Electric Vehicle (EV) charger is 5 years from the date of manufacture. This warranty covers the charger itself and does not extend to any associated costs, including but not limited to travel, labor, consumables, or any other expenses incurred during the repair or replacement process. Earth EV will, at its discretion, repair or replace the charger if a failure or damage is determined by the company's technical personnel to have occurred under normal usage conditions.

2. Exclusions from Warranty

Replacement or repairs fees will be charged for the following situations, even during the warranty period:

a) Equipment failure due to non-compliance with the installation and operation manual.

b) Equipment damage resulting from fire, flood, abnormal voltage, or similar external factors.

c) Equipment damage due to usage for purposes not intended or specified.

d) Equipment damage caused by the ingress of any foreign matter.

e) Equipment damage attributed to other human-induced external factors.

3. Service Fees

The warranty covers only repair or replacement of the product itself and does not include any provision for labor, travel, or incidental expenses.

4. Limitation of Liability

The limitation of liability clause states that Earth EV shall not be held responsible for any special, indirect, consequential, or economic loss or damage suffered by the consumer or any other person because of any act or omission by Earth EV. This includes but is not limited to the loss of profits, loss of revenue, loss of business opportunities, or any other form of financial or economic loss.

This clause serves to protect Earth EV from being held accountable for damages beyond the direct cost of repairing or replacing the product covered under the warranty. It acknowledges that while Earth EV endeavors to provide reliable products and services, it cannot be held responsible for unforeseen or indirect consequences that may arise from product use or failure.

It is important for consumers to understand that while Earth EV stands behind its products and warranties, there are limitations to the extent of liability, especially concerning indirect or consequential damages.

This limited warranty agreement is subject to the terms and conditions outlined herein and does not affect the consumer's statutory rights under applicable laws. This warranty is offered by Diatom Australia Pty LTD. For any inquiries or assistance, please reach out to your designated agent for warranty-related matters.

8. Waste Disposal and Recycling

Please sort your waste!

Please do not dispose of this appliance in your standard household waste.

European Directive 2012/19/EU applies to this appliance. Have your device disposed of by an authorized waste disposal and recycling firm and your local waste management authority. Please note the relevant regulations. In case of doubt, please contact your waste disposal facility.

Recycling

Recyclable goods: Separate the packaging and electrical device by material type for disposal. Place all paperboard and corrugated fibreboard in paper recycling, foils, and films with a waste materials collection center, and have the electronic components properly disposed of by a specialist electrical retailer or a local recycling center.

9. Contacting Support

If you encounter issues that cannot be resolved using the troubleshooting steps outlined in this manual, please contact our support team:

- Email: **contact@earthev.com.au**
- Phone: **1300 345 624**
- Homepage: **www.earthev.com.au**

When contacting support, please provide:

- Your account email address
- Device model and operating system version
- Charger serial number (if applicable)
- Detailed description of the issue, including any error messages
- Steps to reproduce the issue, if possible.