Haier

User Manual

EV AC Charger

HEVAC-(7,11,22) T2C5

HEVAC-(7,11,22) T2

- Please read it carefully before use

Copyright Notice

- Description in this document may contain predictive statements regarding financial and operating results, product portfolio, new technology, configurations and features of product. Several factors could cause difference between actual results and those expressed or implied in the predictive statements. Therefore, description in this document is provided for reference purpose only and constitutes neither an offer nor an acceptance. Qingdao NaHui Intelligent Technologies Co.,Ltd. may change the information at any time without notice.

Contents

Overview

Introduction

This document mainly introduces HEVAC-(7, 11, 22) T2C5 and HEVAC-(7, 11, 22) T2 (hereafter referred to as EV AC Charger) and its networking configuration and operation & maintenance.

Target readers

This document is suitable for product users and professionals

Sign Definition

The following signs may be used in the document to indicate security precautions or key information. Before installation and operation, familiarize yourself with signs and their definitions.

Signs	Definition
Danger	Danger. Failure to comply may result in death or serious personal injury.
Warning	Danger. Failure to comply may result in serious personal injury or property damage.
Caution	Caution. Failure to comply may result in property damage.
Tips	Important or key information, and supplementary operation tips.

Chapter 1 General Requirements

Basic Information

- Before installing, operating, and maintaining the equipment, familiarize yourself with this document.
- The "Danger ", "Warning", "Caution" items described in this manual are only supplementary to all precautions.
- The Company shall not be liable for equipment damage or property loss caused by the following reasons:
- Failure to obtain approval from the national, regional power authority.
- The installation environment does not meet international, national, or regional standards.
- Failure to observe local laws, regulations and norms when operating and maintaining equipment.
- The installation area does not meet the requirements of the equipment.
- Failure to follow the instructions and precautions in this document.
- Failure to follow the warning labels on equipment or tools.
- Negligent, improper operation or intentional damage.
- Damage caused by your or a third party's replacement of our equipment.
- The equipment is damaged because the your or a third-party company fails to use the accessories supplied with the packing box or purchase and install accessories of the same specification.
- Equipment damage caused by improper operations such as disassembling, replacing, or modifying the software code without authorization.
- Equipment damage caused by force majeure (such as war, earthquake, fire, storm, lightning, flood, debris flow, etc.).
- Damage caused by the failure of the natural environment or external power parameters to meet the standard requirements of the equipment during actual operation (for example, the actual operating temperature of the equipment is too high or too low).
- The equipment was stolen.
- The equipment is damaged after the warranty period.

Safety Requirements

⚠ Danger

- Do not expose the equipment to high temperature or heat sources, such as ignition sources, heaters, etc.
- Do not clean or soak the equipment with water, alcohol, or oil to avoid power leakage or battery pack leakage.

- Do not leave liquid in the charging connector or socket.
- Do not knock or impact the equipment. In case of an accident, please stop using the equipment immediately and contact your sales agent, The equipment shall be inspected and evaluated by professional personnel before continuing to use.
- Do not use the equipment in bad weather, such as heavy rain or snowstorm, when installed outdoors.
- Do not extend sharp objects or fingers into the equipment.
- Stop the engine of your vehicle before connecting to the equipment.

⚠ Caution

After charging, put the charging connector and the charging cable back to their specified positions to prevent the charging connector from being contaminated or moistened and the charging cable from being crushed by heavy objects such as vehicles.

⚠ Caution

- Do not use the equipment with faults. If the equipment appears abnormal, contact your sales agent.
- Do not connect cables or adapters that are not required for installing this equipment.
- Do not use the equipment for any purposes other than vehicle charging.
- Do not use a private generator as the power source for the equipment.
- Do not forcedly bend parts on the equipment.
- Carbon dioxide fire extinguishers and ABC dry powder fire extinguishers are recommended at home.
- If the equipment cannot be charged, please contact your sales agent in time.
- The radio waves generated when using the equipment may affect the normal use of implantable medical devices or personal medical devices, such as pacemakers, implantable defibrillators, hearing AIDS, etc. Consult with your medical device manufacturer about the restrictions of using the equipment before use.

Do not use the equipment in the following situations:

- When connected to public infrastructure systems.
- When connected to emergency medical equipment.
- When connected to elevators and other control devices.
- Any other critical systems.

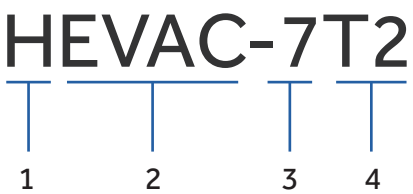
Chapter 2 Product Introduction

2.1 Model Designation

Model specifications of EV AC Charger include the followings:

- HEVAC-7T2C5
- HEVAC-11T2C5
- HEVAC-22T2C5
- HEVAC-7T2
- HEVAC-11T2
- HEVAC-22T2

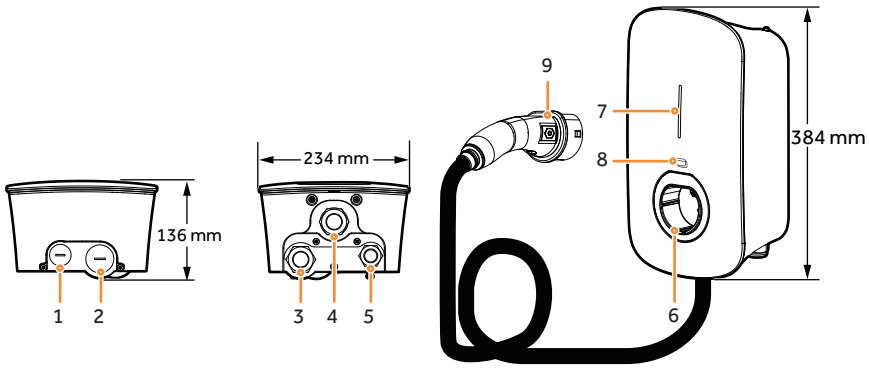
Fig.1-1 Model designation (example)



S/N	Definitions	Description
1	Brand name	–
2	Charger type	EVAC: EV AC charger
3	Power range (phase voltage is 230 V)	• 7: 7.36 kW • 11: 11 kW • 22: 22 kW
4	Features	• Ethernet communication • 4G communication • WLAN communication • IC card–based charging mode • App–managed charging mode • Unauthenticated charging mode (plug and charge)
4	Output port	• T2: Type 2 charging connector complying with IEC 62196–2 • T2C5: Type 2 charger socket with protective door complying with IEC 62196–2

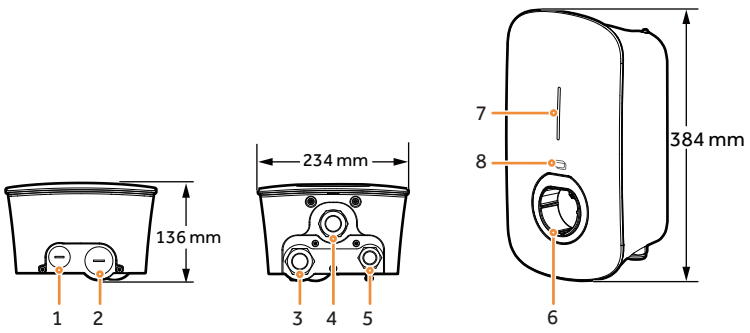
2.2 Product Appearance

HEVAC-7/11/22 T2C5



S/N	Description
1	Top routing hole for communication cable
2	Top routing hole for AC input cable
3	Bottom routing hole for AC input cable
4	Bottom routing hole for charging cable
5	Bottom routing hole for communication cable
6	Type 2 charging connector holder
7	Indicator
8	IC card reading area
9	Charging connector

HEVAC-7/11/22 T2



S/N	Description
1	Top routing hole for communication cable
2	Top routing hole for AC input cable
3	Bottom routing hole for AC input cable
4	Bottom routing hole for charging cable
5	Bottom routing hole for communication cable
6	Type 2 charging connector holder
7	Indicator
8	IC card reading area

⚠ Caution

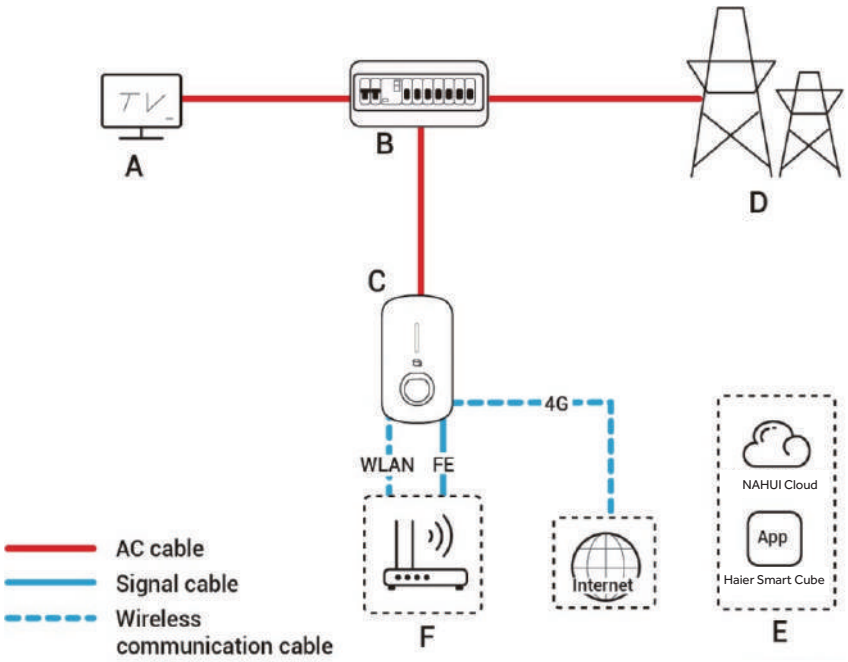
Cables are routed through the cable holes (No. 1 and No. 2) on the top. Please cover the top to avoid water ingress due prolonged water accumulation on the top.

2.3 Label Description

Symbol	Description
	Warning! Life-threatening Potential risks exist when the equipment is running. Please take protective measures before operating the equipment.
	Danger! High Voltage High voltage exists inside the equipment when powered on. Do not open the casing when the equipment is running. Any maintenance or servicing operations must be performed by trained and skilled electrical engineers.
	Operate the equipment by referring to the User Manual.
	GND symbol

2.4 Typical Networking

Networking configuration of the charger



A. Power equipment B. Distribution panel C. EV AC Charger D. Power grid

E. Smart Cube F. Router

Chapter 3 Location Requirements

Tips

The warranty applies when the equipment has been installed properly for its intended use and in accordance with the operating instructions.

Installation Environment Requirements

- Do not install the equipment in smoky, flammable, explosive, or corrosive environments.
- Avoid exposing the equipment to direct sunlight, rain, standing water, snow, or dust. Install the equipment in a sheltered place. Take preventive measures in operating areas prone to natural disasters such as floods, mudslides, earthquakes, and typhoons.
- Do not install the equipment in an environment with strong electromagnetic interference.

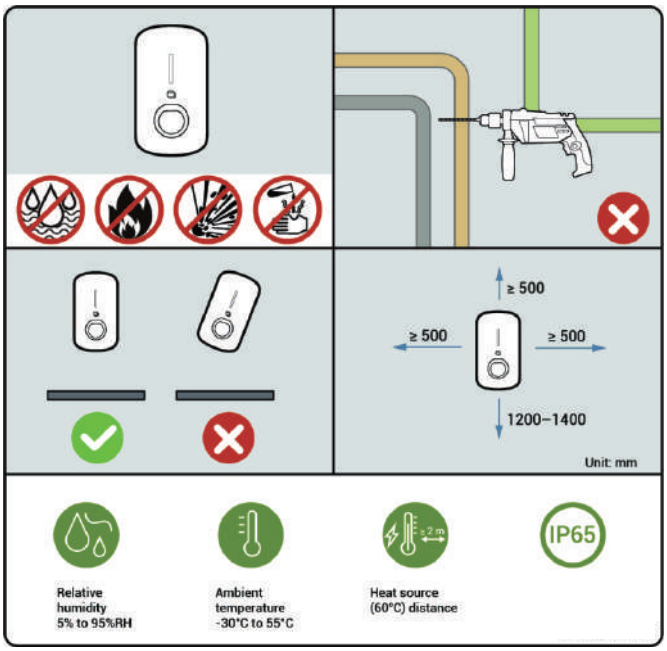
- Ensure that the temperature and humidity of the installation environment comply with the equipment's requirements.
- The equipment should be installed in an area that is at least 500 m away from corrosion sources that may result in salt damage or acid damage (corrosion sources include but are not limited to seaside, thermal power plants, chemical plants, smelters, coal plants, rubber plants, and electroplating plants).

Installation Position Requirements

- Do not tilt or overturn the equipment to ensure that it is installed horizontally.
- Do not install the equipment in a place easily touched by children.
- Do not install the equipment in mobile scenarios such as RVS, cruise ships, and trains.
- You are advised to install the equipment in a position that is easy to operate, maintain, and view indicator status.
- When installing the equipment in the garage, do not install the equipment in the position where the vehicle passes through to avoid collision.

Mounting surface

- Do not install the equipment on a flammable carrier.
- The installation carrier must meet load-bearing requirements. Solid brick-concrete structure, concrete walls are recommended.
- The surface of the installation carrier must be smooth and the installation area must meet the installation space requirements.
- No water or electricity is routed inside the carrier to prevent drilling hazards during equipment installation.

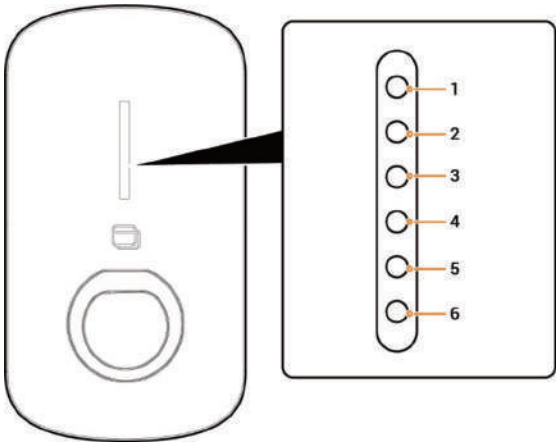


Chapter 4 Equipment Installation and Connection

Equipment installation and connection must only be completed by the installer certified by the Company. For more information, refer to EV AC Charger Installation Guide.

Chapter 5 How to Use

5.1 LED Indicator Status



Illuminated Indicator	Color	Status	Meaning
All	Multicolored	Steady on	Starting, initializing configuration.
1		Steady on	In standby mode. Not connected to the internet, charging connector not inserted into the vehicle.
1		Breathing blink	In standby mode. Connected to the internet, charging connector not inserted into the vehicle.
All		Steady on	• IC card not read. The charging connector is connected to the vehicle. • Charging completed.
All		Breathing blink	You have registered the charging time, and the charging connector has already been connected to your vehicle.
All		Blink	IC card read. Get ready to charge vehicles.
All		Flowing blink	Charging.
None	–	–	Not powered on or low voltage.
1		Blink	Equipment electrical leakage.

Illuminated Indicator	Color	Status	Meaning
1		Steady on	In standby mode. Not connected to the internet, charging connector not inserted into the vehicle.
1		Breathing blink	In standby mode. Connected to the internet, charging connector not inserted into the vehicle.
All		Steady on	• IC card not read. The charging connector is connected to the vehicle. • Charging completed.
All		Breathing blink	You have registered the charging time, and the charging connector has already been connected to your vehicle.
All		Blink	IC card read. Get ready to charge vehicles.
All		Flowing blink	Charging.
None	–	–	Not powered on or low voltage.
1		Blink	Equipment electrical leakage.
1		Steady on	Relays within the equipment getting stuck.
2		Blink	Overvoltage or undervoltage protection.
3		Blink	Overcurrent protection.
4		Blink	Overtemperature protection.
5		Blink	Grounding fault.
6		Blink	Communication failure between the equipment and the vehicle.
All		Blink	Other malfunctions.

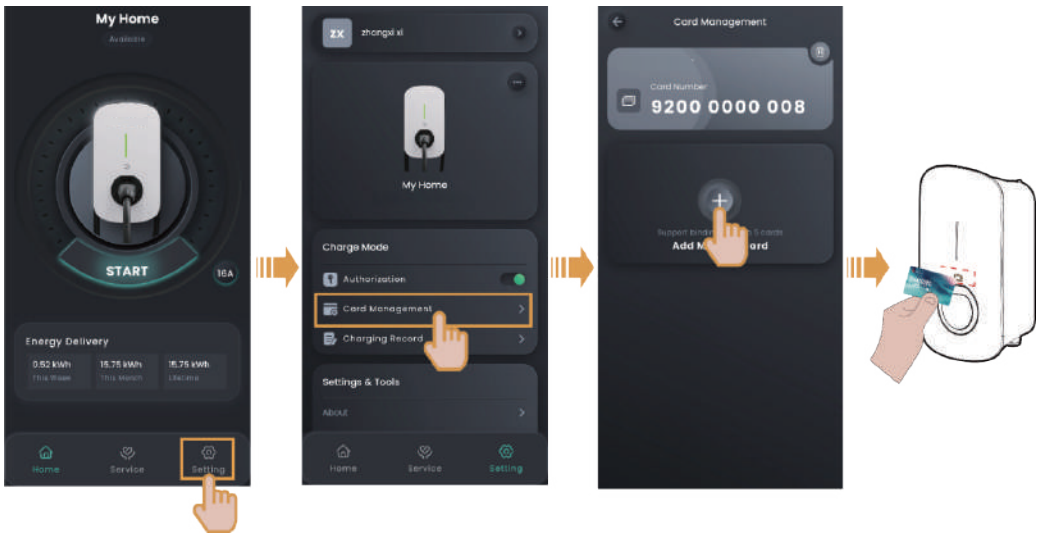
5.2 Haier Smart Cube App Download and Login

1. Download the app.

2. Provide your email account to the installer for signing up.
3. After signing up your account, the installer will ask you to activate your account.
4. Please check the email sent from the "NAHUI cloud" account in your inbox, set your initial password, and activate your account.
5. Log in to the app.

5.3 Binding IC Card

Go to "Setting"→"Cards management" and bind your IC card.



Tips

If an error occurs when you bind the IC card, you can click and delete the IC card on the "Cards management" page.

5.4 Use of Equipment

EV AC Charger supports app-managed charging mode, IC card-based charging mode, and unauthenticated charging mode (plug and charge).

⚠ Caution

Please carefully read vehicle-related precautions and requirements before charging vehicles.

5.4.1 App-managed or IC Card-based Charging Mode (Recommended)

1.Install the charging connector in place.

2.Start charging on the equipment.

- Method 1: App-managed charging mode

Click "START" on the "Home" page.

- Method 2: IC card-based charging mode

Swipe the IC card.

5.4.2 Unauthenticated Charging Mode

1. On the "Setting" page, turn "Authentication" off, that is,  .
2. Install the charging connector in place.

Tips

It should be noted that when the unauthenticated charging mode is enabled, any vehicles can use this equipment for charging.

5.4.3 Stop Charging

Charging completed

The equipment will automatically stop charging when the vehicle is fully charged.

During charging

Method 1: Read your IC card to stop charging.

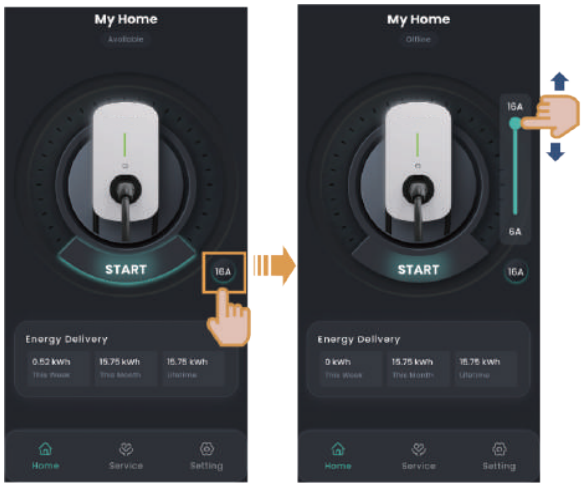
Method 2: Click "STOP" on the "Home" page to stop charging.

5.5 Charging Current Adjustment

To adjust the charging current, set the output current on the "Home" page.

Tips

The higher the output current is, the higher the charging power is.



5.6 Other Settings of Smart Cube App

For more information about the app settings, refer to Smart Cube App User Manual.

Chapter 6 Routine Maintenance

To ensure the long-term running of the equipment, you are advised to perform routine maintenance according to this section.

Illuminated Indicator	Inspection method	Power off or not	Maintenance cycle
System cleaning	Regularly check the equipment for blocking out or dust contamination. If so, clean it up. Do not use tools that may cause electric shock or insulation damage, such as wire brushes and wet towels during the cleaning process.	Yes	Once every three months.

Illuminated Indicator	Inspection method	Power off or not	Maintenance cycle
System running state	• Check whether the equipment is damaged or deformed. • Listen for any abnormal noises during the operation of the equipment. • When the equipment is running, check whether the equipment parameters are correctly set.	No	Once every six months.

Chapter 7 Appendix

7.1 Technical Parameter

For details about equipment parameters, see the Data sheets of the product.

Haier

Official website of NAHUI

Haier Smart Cube

Qingdao Nahui Intelligent Technology Co., Ltd.

Room 205-2, Building 4, No. 7 Keji 1st Road, Aoshanwei Street Office, Jimo District, Qingdao City, Shandong Province, P.R. China

www.eur.nahui-newenergy.com

20240418_V1.0