Dual Wallbox

Installation & Operation Guide



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Safety and user information – General

Safety and user information

General

This manual describes all working steps required to install and/or operate the product it concerns.

Certain sections of this manual are specially formatted for quick and easy reference.

- Descriptions listing equally valid options are indicated by bullet points.

Descriptions listing operating steps are numbered in chronological order.

Actions marked with this symbol must not be carried out under any circumstances.

Actions marked with this symbol must be carried out with special care.

- Actions marked with this symbol should be carried out as required.
- Passages containing additional information.

Safety information

The safety notices serve to ensure the proper and safe installation, as well as subsequent safe operation of the device.

Disregard of or actions contrary to the safety information and instructions contained in this manual may lead to electric shock, fire, severe injury and/or death.

Please pay attention to the following points:

- Please read this manual carefully.
- Heed all warnings and follow all instructions.
- Keep this manual in a safe place where it can be accessed at all times: The contents of this manual, and the safety notices in particular, must be available to all users of the product.
- Only use accessories intended and sold for the product by ABL.
- Do not install this device in close vicinity to running water, water jets or areas subject to flooding.
- The product must not be installed in explosive atmosphere areas (EX areas).
- Mechanical installation should be carried out by qualified specialist personnel.
- Electrical installation and testing must be carried out with reference to local rules by a qualified specialist electrical contractor, who, on the basis of their specialist training and experience, as well as their knowledge of the relevant standards, is able to assess and carry out the working steps described in this manual and recognise potential hazards.

Please note that electrical grid operators, energy suppliers or national regulations may require notifica-tion of or approval for the installation or operation of a charging station.

- The product must only be operated after final approval by a qualified specialist electrical contractor.
- In case of installation faults, or malfunctions that can be traced back to faulty installation, always contact the contractor who carried out the installation first.
- The product must not be covered with stickers or other objects or materials.
- No liquids or receptacles containing liquids must be placed on the product.
- Please note that operating a radio transmitter in the immediate vicinity (< 20 cm) of the product may lead to malfunctions.
- This device is not intended to be used by persons (including children) with limited physical, sensory or mental abilities or lack of experience and/or knowledge, unless they are supervised by someone responsible for their safety or have received instructions on how to use the device.
- Children must be supervised so that they do not play with the device.
- Do not under any circumstances make alterations to the product. Any disregard of this instruction represents a safety risk,fundamentally breaches the guarantee provisions and may void the warranty with immediate effect.
- Malfunctions affecting the safety of persons, connected electric devices or the device itself must be resolved by a qualified specialist electrical contractor.
- Should one of the following malfunctions occur, please contact the specialist electrical contractor who has carried out the installation of your wallbox and accessories:
  ①The product housing has been damaged mechanically, or the housing cover has been removed or can no longer be closed.
  ②Sufficient protection against splashing water and/or foreign objects is no longer provided.
  ③The product does not function properly or has been otherwise damaged.
  In case of short-circuit, the value of I2t at the vehicle connector (Case C) of the Mode 3 charging station shall not exceed 80 000 A2s.
- Adaptors or conversion adapters are not allowed to be used.
- Cord extension sets are not allowed to be used.

User information

- Ensure that the rated voltage and rated current of the product comply with the parameters of your local electricity grid and that the rated output is not exceeded during operation.
- Local safety regulations regarding the operation of electrical devices for the country in which you operate the product always apply.
- To disconnect the product completely from the electricity grid, the power supply must be interrupted using the upstream safety switches and fault current protection devices (if present) in the domestic power distribution.
- Never operate the product in a confined space.
- Ensure that the product can be operated without any strain pulling on its components.
- Make sure that the product is always closed and locked when in use. All authorized users must be aware of the 'unlock'position of the key.

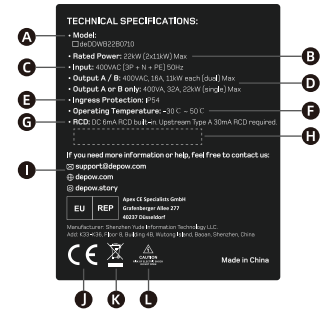
- You must under no circumstances make any changes to the housing or the internal wiring of the device: Anydisregard of this instruction fundamentally breaches the guarantee provisions and voids the warranty with imme- diate effect.

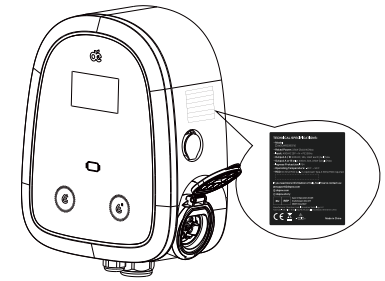
Only have the product repaired by a qualified specialist electrical company.

Please note that all technical details, specifications and design characteristics of the product may be changed without prior notice.

Identifying your wallbox
The model variant of the Wallbox can be unambiguously identified on the rating plate located on the inside of the housing cover. Please verify the information listed below on the rating plate.
The following information is especially relevant:

- Model number and Master or Slave configuration
- External power supply





A Model
B Rated Power
C Input
D Output A/B
E IP
F Operating Temperature
G RCD
H SN code
I Support, website
J CE lable
K No Discarding
L Caution sign

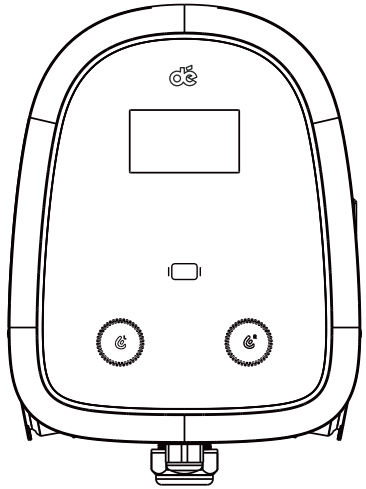
1.Product Overview

dé Dual Wallbox

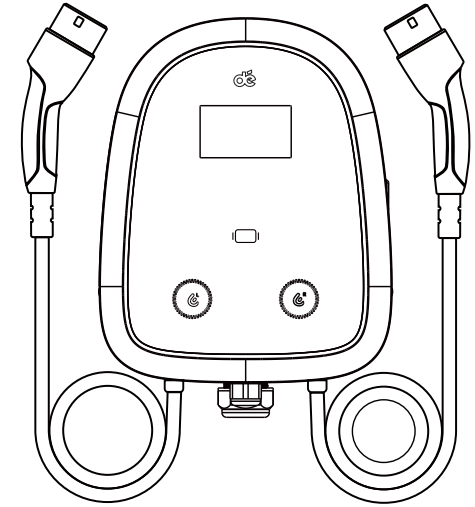
dé Dual Wallbox is a new generation AC EV charger available in 2x22kW, 2x11kW, and 2x7kW configurations. It enables simultaneous charging of two electric vehicles and is ideal for residential communities, detached houses, small commercial properties, company offices, and logistics parks with multiple electric vehicles.

The charger supports multiple user-friendly features, including Plug & Charge, NFC card activation, and a mobile app for remote monitoring and control. It offers OCPP 1.6J compatibility and connects to the internet via Wi-Fi or LAN for seamless backend integration.

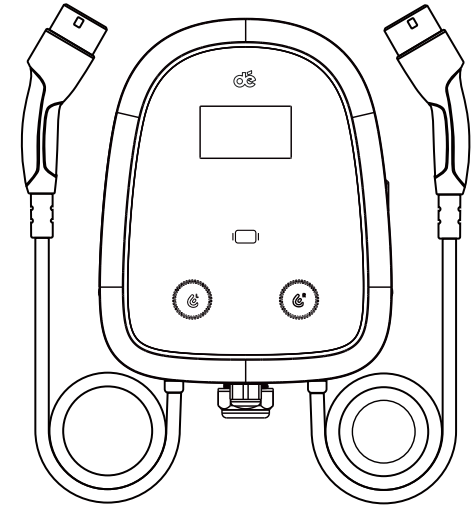
For safety, the unit is equipped with 30mA Type A + 6mA DC residual current protection and is CE certified, ensuring secure operation for both users and vehicles.



Dual 2x22kW Wallbox with Socket



Dual 2x11kW Wallbox with Cables



Dual 2x7kW Wallbox with Cables

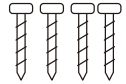
2.Specification

Datasheet	**Name**	**Dual 2x22kW Wallbox with Socket**	**Dual 2x11kW Wallbox with Cables**	**Dual 2x7kW Wallbox with Cables**
	Model	deDDWB44B	deDDWB22B0710	deDDWB14B0710
Electrical Specification	**Power Supply**	3P+N+PE	3P+N+PE	1P+N+PE
	Rated Voltage	400V AC	400V AC	230V AC
	Rated Current	64A (32A+32A)	32A (16A+16A)	64A (32A+32A)
	Rated Power	2x22kW max - 22kW+22kW (400V, 32A+32A, three-phase) - 22kW+11kW (400V, 32A+16A, three-phase) - 11kW+11kW (400V, 16A+16A, three-phase) - 7kW+7kW (230V, 32A+32A, one-phase) - 3.5kW+3.5kW (230V, 16A+16A, one-phase)	2x11kW max - 11kW+11kW (400V, 16A+16A, three-phase) - 1x22kW (400V, 32A, three-phase) - 1x7kW (230v, 32A, one-phase) - 3.5kW+3.5kW (230V, 16A+16A, one-phase)	2x7kW max - 7kW+7kW (230V, 32A+32A, one-phase) - 3.5kW+3.5kW (230V, 16A+16A, one-phase) - 7kW+3.5kW (230V, 32A+16A, one-phase)
	Frequency	50Hz		
	Charge System	Model 3		
	Power inlet line	5x16mm max for 64A 5x6mm for 32A 5x2.5mm for 16A	5x6mm for 32A 5x2.5mm for 16A	3x16mm max for 64A 3x6mm for 32A 3x2.5mm for 16A
	Cable Lengths	None	7m left, 10m right	7m left, 10m right
	Charging Connector	Type 2 Socket	Type 2 Cables	Type 2 Cables
	Installation	Wall-mount/pole-mount(Optional)		
Interactive interface	**LED Indicator**	Yellow/Blue/Green/Red		
	Screen	4.3 inch LCD Screen with touch mode		
	Starting Mode	Plug and play		
		RFID Card		
		APP		

Communications	**Wifi & Ethernet & Bluetooth**	**Standard**	
	OCPP	OCPP 1.6J	
Safety protection	**Electrical Protection**	Over current protection, over voltage protection, under voltage protection, over temperature protection, leakage protection, unconnected PE ground protection etc.	
	RCD	DC 6mA	
	RCBO	Type A 30mA	
	Ingress Protection	IP54	
	CE Certification	EN IEC 61851-21-2:2021 EN 300 330 V2.1.1:2017 EN 300 328 V2.2.2:2019 EN 301 489-1 V2.2.3:2019 EN 301 489-3 V2.3.2:2023 EN 301 489-17 V3.2.4:2020 EN 50663:2017 EN 62479:2010 EN 62311:2008 EN IEC 62311:2020 EN IEC 61851-1:2019	
Working Environment	**Tempreture**	-30℃ ~ 50℃ Derated when > 45C	-30℃ ~ 50℃
	Altitude	<2000m	
	Relative Humidity	95%RH, No water droplet condensation	
	Viration	0.5G, No acute vibration and impaction	
	Installation Location	Indoor or outdoor, good ventilation, no flammable, explosive gases	
Package	**Product Dimension**	385mm*309mm*166.5mm (L*W*D)	
	Package Dimension	490mmx384mmx315mm (L*W*D)	490mmx384mmx235mm (L*W*D)

3.Mounting fittings

Components included in the product
The product is delivered including the following components:

D0 Dual Outlet charging Point		RFID cards	
Safety notices & quick start guide (multilingual)		Wall anchors (8 x 40 mm)	
Machine key		Insulated ring terminals	
Screws (Φ8 x 45 mm)			

Check immediately after unpacking whether all components are included: should any components be missing, please contact the dealer from whom you purchased the wallbox.

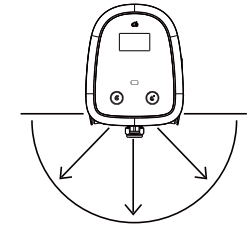
4.Installation

It is recommended to have the entire installation of the wallbox carried out by a qualified pecialist electrical con- tractor.

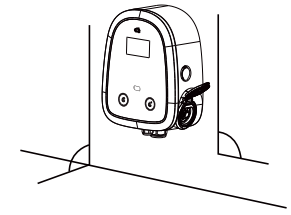
Electrical installation, as well as final testing and certification for operation must be carried out by a qualified specialist electrical contractor, who, on the basis of their specialist training and experience, as well as their knowledge of the relevant standards, is able to assess and carry out the working steps described in this manual and recognise potential hazards.

Installation site requirements

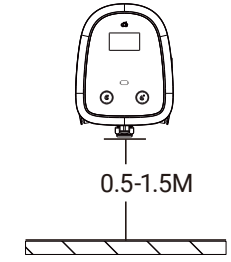
The installation site must be freely accessible.



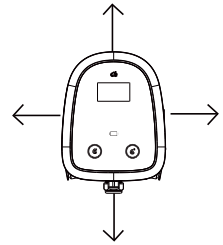
The mounting surface must be level and solid.



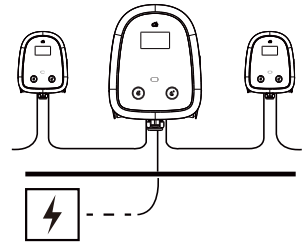
The installation height should be between 0.5 -1.5m (ground to bottom edge of housing).



- Minimumdistances to othertechnical installa-tions mustbe observed.rereeerhA minimumdistance of 50 cm is recommended.



- Ideally, the installation site should provide a ready connection to the electricity grid. Other wise, a separate power supply cable must be installed.
- In order to operate group installations, suitable data cables must also be installed in the i nstal- lation site



Tools and accessories required
For mechanical installation, you will need the following components:

- **Wall plugs 8 × 40 mm**



- **Housing cover key**



- **Bit (Torx T20)**



- **Pencil**



- **T20 panhead screws, 6 × 60 mm**



- **Electric drill**



- **8 mm Φ drill bit suitable for the respective mounting surface**



- **Spirit level**



- **Screwdriver (Phillips head)**



- **Pliers**



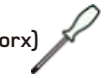
- **Voltmeter**



- **Tape measure**



- **Screwdriver (Torx)**



- **Hammer**



- **Wire stripper**



5.Preparing the mounting site

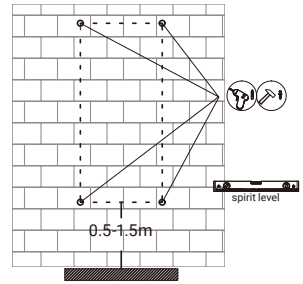
As a matter of principle, the electrical supply cable in the domestic power distribution must be switched off for the entire duration of mechanical and electrical installation. The connection to the power grid must only be made live for the purpose of commissioning, after electrical installation is complete.

Always observe the 5 safety rules:
1. Cut power source
2. Secure all cut-off devices
3. Verify absence of voltage
4. Ground and short-circuit
5. Cover or bar access to adjacent components under voltage

Proceed as follows:

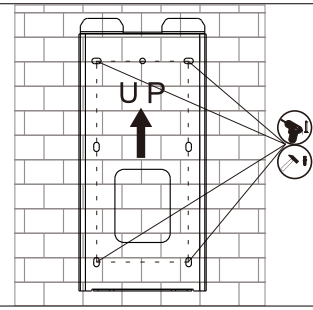
1

Place the backplate on the wall, drill a hole in the fixing point, and insert the wall plug into the fixing point The hole is 0.5-1.5m away from the ground.



2

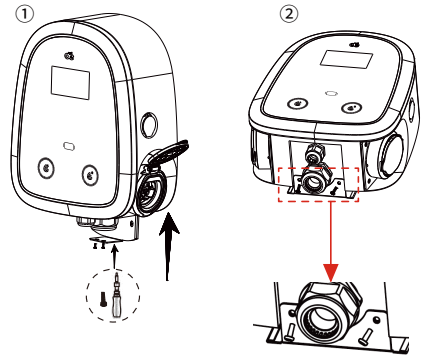
Put the fixing plate with four Φ8*45mm expansion screws on the wall and the electric torque is 2N.



3

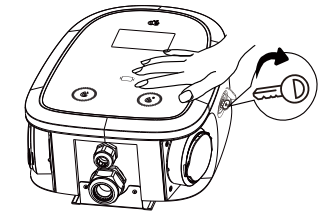
① Install the charger on the back plate and screw to fix from bottom.

② Tighten the two screws at the bottom of the machine to secure the charger to the mountingbackplate.

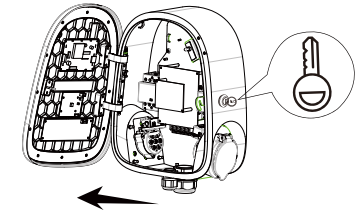


4

① Hold the cover meanwhille turn the key in the lateral side lock then to unlock the cover (note: turn the key right wards)

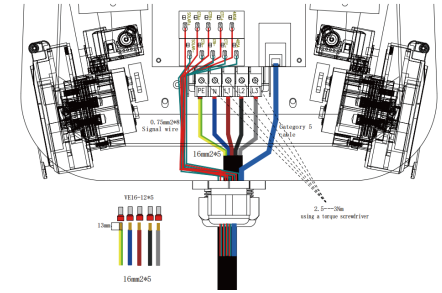


② After fixing the charger, open the front over with the key provided on the machine for the next step



5

Wiring,from left to right ,from bottom to up:
Left to right:
PE、N、L1、L2、L3(terminals)
(DLB optional)Bottom to up:
SOLAR、CTA、CTB、CTC、485

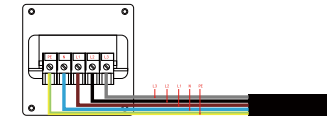


6

Inlet Wiring

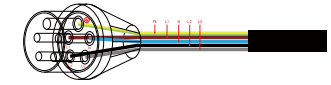
Model deDDWB44B and deDDWB14B0710:

5x6mm line, PE/N/L1/L2/L3 → 22kW CEE or 400V AC 40A 3-phase Distribution Box, Type A RCBO.



Model deDDWB22B0710:

3x6mm line, PE/N/L1→ 7kW CEE or 230V AC 40A 1-phase Distribution Box, Type A RCBO.



7

Rated Installation Current: 64A

Model deDDWB44B:

400V AC 80A 3-phase Distribution Box, Type A RCBO, up to 5x16mm² line(PE/N/L1/L2/L3), supports dual 22kW charging.

Model deDDWB22B0710:

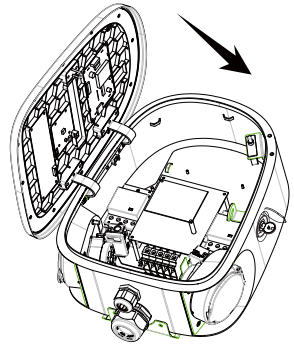
22kW CEE or 400V AC 40A 3-phase Distribution Box, Type A RCBO, up to 5x6mm² line(PE/N/L1/L2/L3),supports dual 11kW or single 22kW charging.

Model deDDWB14B0710:

230V AC 80A 1-phase Distribution Box, Type A RCBO, up to 3x16mm² line(PE/N/L1), supports dual 7kW charging.

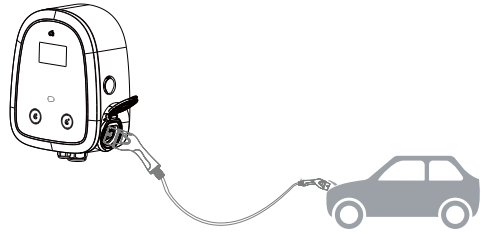
8

Put the fixing plate with four M5*40mm expansion screws on the wall and the electric torque is 2N.



9

Connect the EV charging point to the city power, Connect the EV charger connectors to the EV charger socket and your EV to starting.

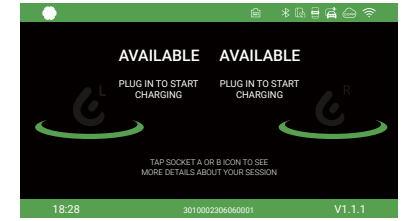


6.LCD setting

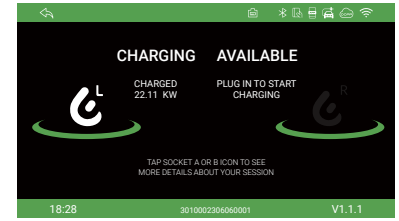
6.6.1 Starting page



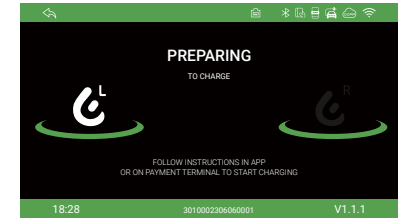
6.6.2 Main page



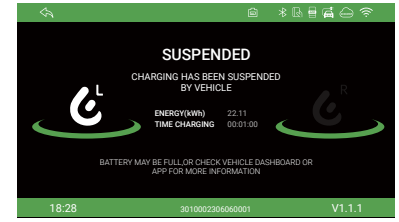
6.6.3 Main page, status of 2 connectors, charging status and basic information



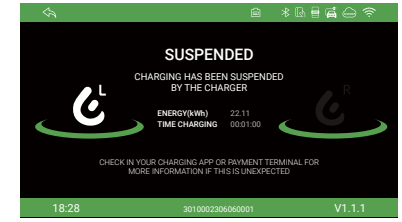
6.6.4 Prepare to charge, follow the instruction in APP or payment terminal



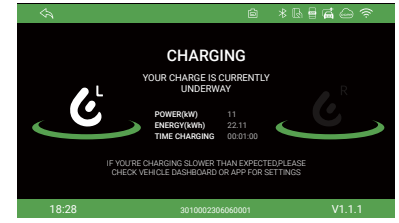
6.6.5 Suspended, charging has been suspended by vehicle



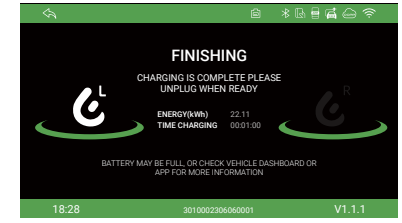
6.6.6 Suspended, charging has been suspended by charger



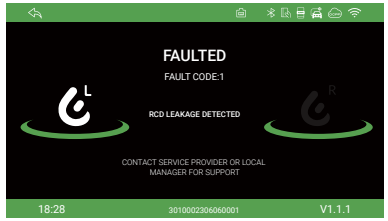
6.6.7 Charging properly



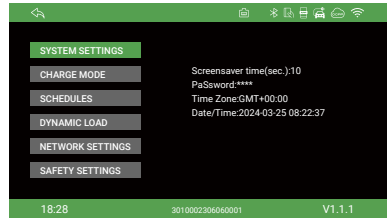
6.6.8 Charging finished



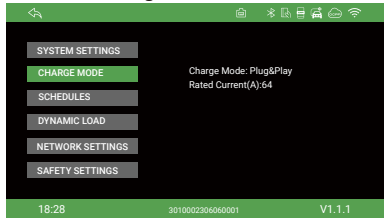
6.6.9 Faulted



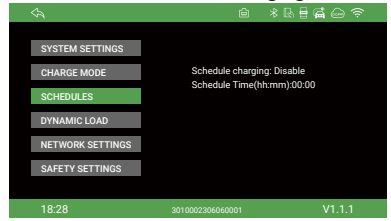
6.6.10 System charging page and password setting



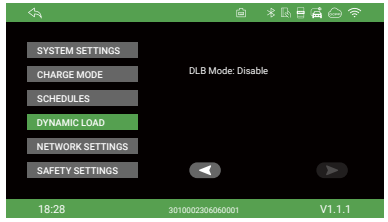
6.6.11 Charge mode and rated current setting



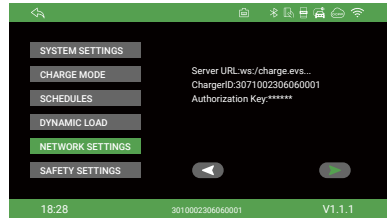
6.6.12 Schedules page Enable or disable and set the scheduled charging time



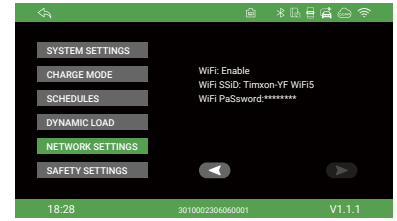
6.6.13 DLB page:
DLB Mode -Whether to enable dynamic load balancing function



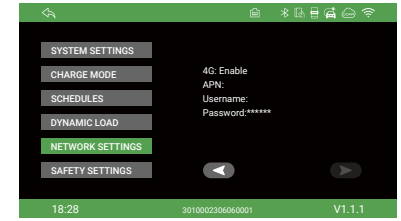
6.6.14 Network settings
Server URL - OCPP server address
Charger ID - SN of the charger
Authorization Key input



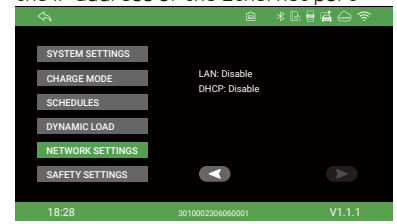
6.6.15 WiFi - Whether to enable the WiFi
WiFi SSID and WiFi Password input



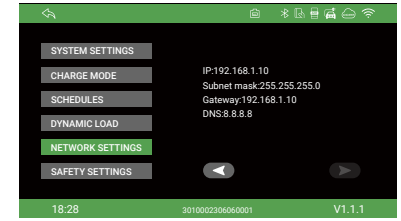
6.6.16 4G - Whether to enable the 4G
Input the APN,username and password



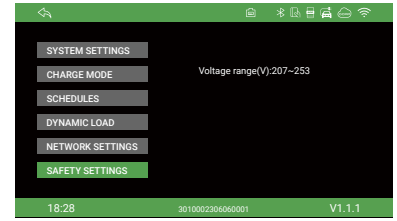
6.6.17 LAN - Whether to enable the LAN
DHCP - Whether to dynamically obtain the IP address of the Ethernet port



6.6.18 IP Settings
IP address,Subnet mask,Gateway and DNS



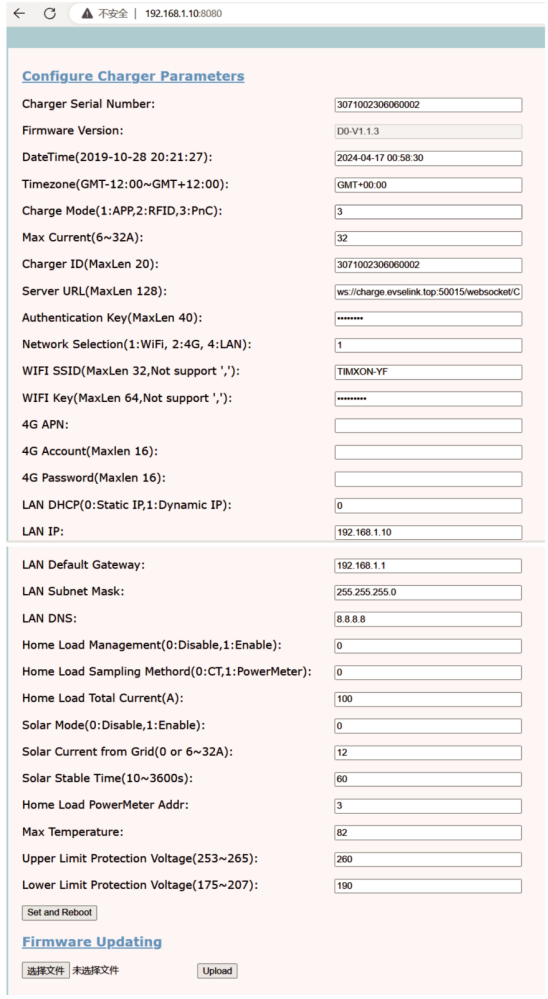
6.6.19 Safety settings page:
Voltage range - Voltage safety range Settings



7.WEB setting

7.1 web login
Set the IP address of your computer to 192.168.1.XX, open the browser and enter it:

7.2 web setting



8.Configuration

8.1 install CP Tool App
Install CP Tool from Google Play or Apple Store.
The CP Todl is used to set charger parameters.



CP Tool
Figure 8- 1 Installation APP icon

8.2 CP Tool connect the charger

Open CP Tool, find the Bluetooth device corresponding to the Charger SN, and click

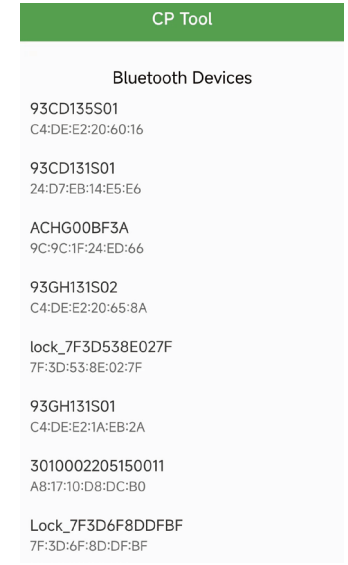


Figure 8-2 Device List Page

8.3 Login Configuration interface.

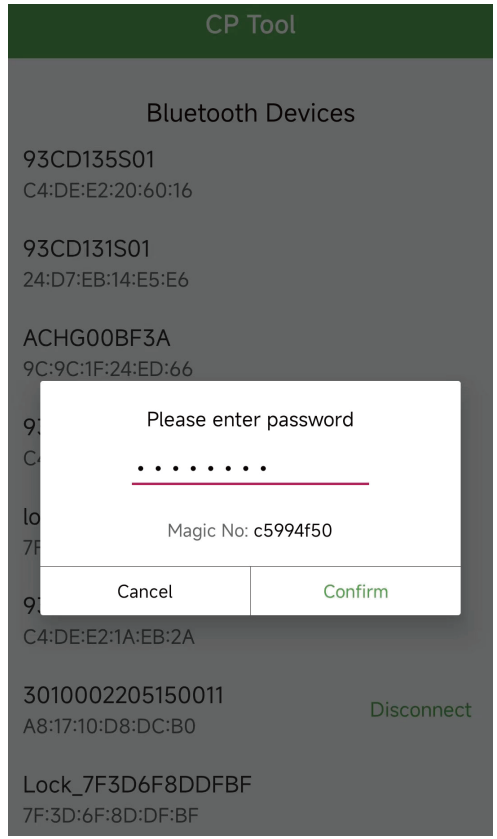


Figure 8-3 Login Page

If the connection is successful, enter the password (default password: 12345678) in the password input box and click Confirm.

8.4 Parameter configuration.

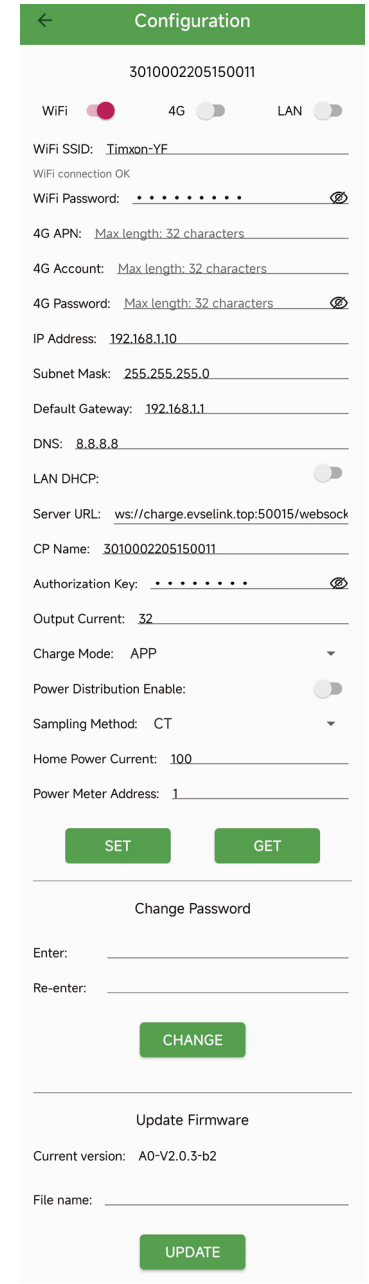


Figure 8-4 Login Page

8.5 Select charge Mode, APP, RFID Only, Plug and charge.

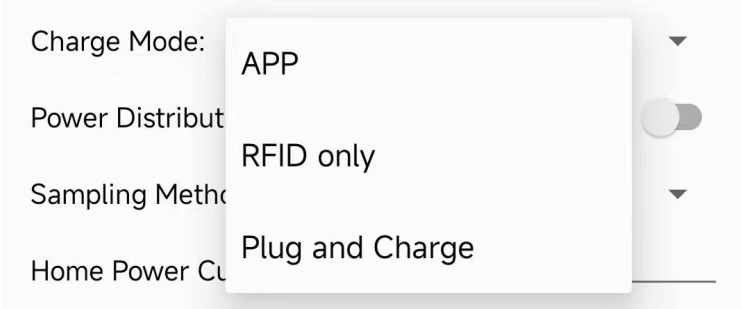


Figure 8-5 Charge Mode Options

If you select APP Mode, go to 3.4.2 to configure network parameters.
If you choose RFID Only Mode or Plug and Charge Mode, you can skip the configuration of network parameters and directly start from 3.4.4.

8.6 Select communication interface: WiFi, 4G, LAN and set theparameters of the communication interface.

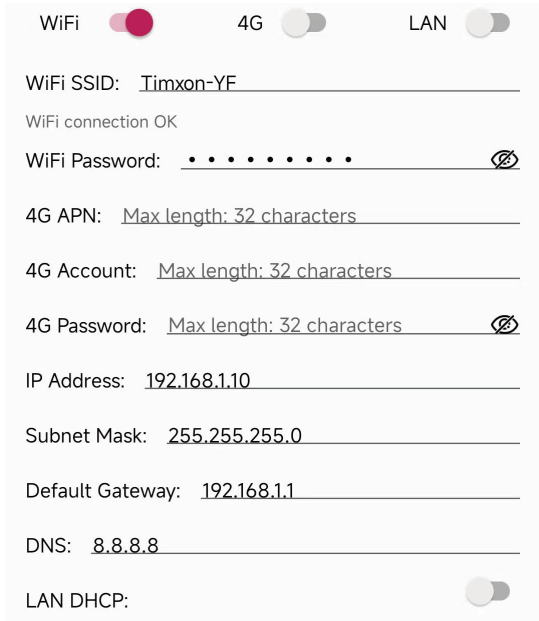


Figure 8-6 Network parameters

8.7 Confgure the parameters related to the OCPP connection



Figure 8-7 OCPP back end parameters

8.8 Limit the maximum charging current



Figure 8-8 Maximum Current

8.9 Confguration DLB

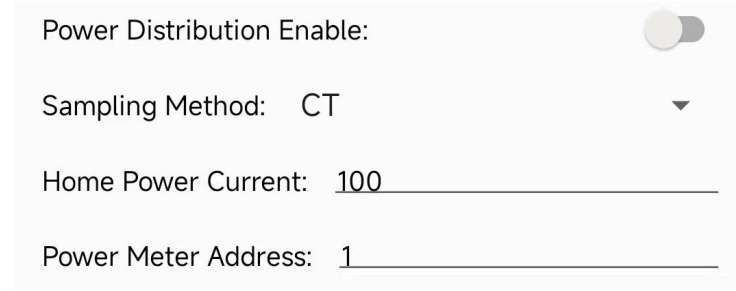
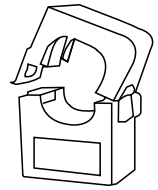


Figure 8-9 DLB parameters

If extemal CT clamps are installed to sample currents from the home grid, the DLB fundion can be enabled.
*Enabling Power Distribution Enable
*The Sampling Method item seleds CT
* Home Power Current is set to a value smaller than the maximum distibution Curent in the Home.

CT Clamp (optional)

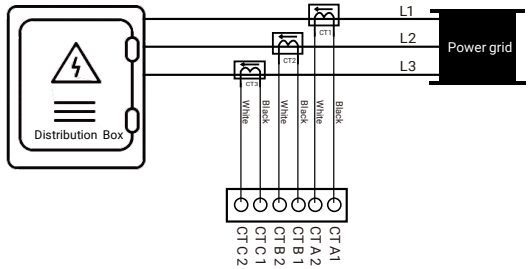
The CT clamp can measure current up to 120A.



Installation instructions

Please refer to the schematic diagram below for the interface position of CT clamps in the charger.

★ The CT clamps should be Installed in the position of the incoming line of the home electrical box (distribution box),not the incoming line position inside the charger.



- For a single-phase charge point, the CT clamp is connected to CTA, the black wire is connected to 1, and the white wire is connected to 2. The CT clamp is connected to the main incoming line of the home power grid. The incoming line phase of the CT clamp is the same as the phase of the power supply line of the charge point.

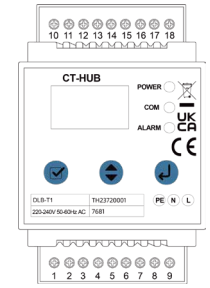
- For a three-phase charge point, the three CT clamps are connected to CTA, CTB, and CTC respectively, the black wire is connected to 1, the white wire is connected to 2, the CT clamps are hung at the main incoming line of the home grid, CTA is connected to L1, CTB is connected to L2, and CTC is connected to L3.

  The direction of the CT clamp arrow is the incoming line direction of the home grid.

  After the parameters are modified, click SET, then return to the previous page, click Disconnect, and APP will disconnect the Bluetooth connection. At this time, the charger will save the configuration and restart. After restarting, the new parameters will be applied.

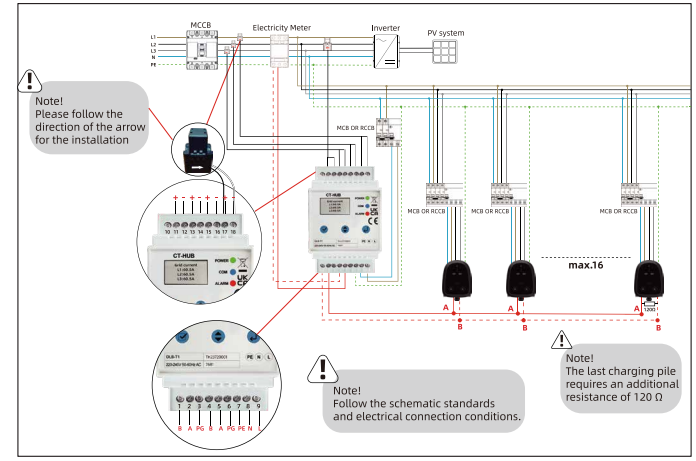
CT-HUB Product Diagram

CT HUB is required when multiple D0 charging points are used for DLB. For specific operation instructions of CT HUB, please check the CT HUB user manual.

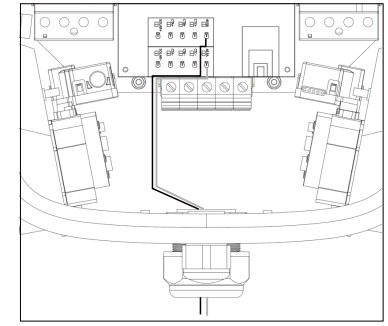


Installation instruction

1.Installation wiring diagram



Black line 458B
Gray wire to 458A





LED description

LED	Description
Solid yellow	APP Mode: Not connected to EV and not connected to the app
Solid blue	APP Mode: Not connected to EV but connected to the app RFID or Plug & Charge Mode: Not connected to EV
Flashing blue	Connected to EV
Slow flashing blue	A schedule is active
Glowing green	Charging in progress
Flashing green	Charging ended
Solid red	Unavailable
Fast flashing red	Firmware update in progress
Red flashing 1 times	Error: error code 1
Red flashing 2 times	Error: error code 2
Red flashing 3 times	Error: error code 3
Red flashing 4 times	Error: error code 4
Red flashing 5 times	Error: error code 5
Red flashing 6 times	Error: error code 6
Red flashing 7 times	Error: error code 7
Red flashing 8 times	Error: error code 8
Red flashing 9 times	Error: error code 9
Red flashing 10 times	Error: error code 10
Red flashing 11 times	Error: error code 11
Red flashing 12 times	Error: error code 12
Red flashing 13 times	Error: error code 13

9.Charging

DANGER

- During the charge session, do not disconnect the connector. There is a risk of damage to the connector or your EV charging port.
- Never tough the power plug/connection with wet hands.

App Mode

1. Start charging
   - Remove the connector from the holster.
   - Plug the connector into your EV charging port.
   - The LED will light blue or the LCD screen shows ready, tap Start on the app.
2. Stop charging
   - Tap Stop on the app.
   - Carefully remove the connector from EV and stow the cable in the cable holster.

RFID Only Mode

1. Start charging
   - Remove the connector from the holster.
   - Plug the connector into your EV charging port.
   - Tap the RFID card on the RFID reader.
2. Stop charging
   - Tap the RFID card on the RFID reader again.
   - Carefully remove the connector from EV and stow the cable in the cable holster.

Plug and Charge Mode

1. Start charging
   - Remove the connector from the holster.
   - Plug the connector into your EV charging port. The charger will automatically start charging once the connector is properly connected.
2. Stop charging
   - Press the touch button.
   - Carefully remove the connector from EV and stow the cable in the cable holster.

10.Troubleshooting and Maintenance

Troubleshooting

Error Code	Error Description	Troubleshooting Suggestions
1	Leakage	• Disconnect the leakage/over-current protection, switch off the distribution box immediately • Check whether the charger's output cable is damaged or has low-impedance ground or short circuit • After troubleshooting the above problems, power on the charger again. If the problem still exists, contact customer support
2	Over current	• Check whether the charging connector is correctly connected. • Check whether the OBC (On-board Charger) is normal
3	Ground fault	• The charger is not grounded. Check the input power cable. • In case of a single live wire, make sure that the L and N wires are not wired in reverse.
4	Over voltage or under voltage	• Check whether the input cable is property connected. • Check whether the voltage on the power input is too high or not sufficient. If yes, contact local power grid company
5	Relay welding or breaking	• Power off and restart the charger. If the problem still exists, contact customer support
6	Abnormal CP (Control Pilot)	• Check the charging connector and charging socket of your EV • Disconnect and reconnect the charging connector
7	electronic lock fault	• Check that the electronic lock connection is reliable
8	Over temperature	• The ambient temperature is too high.Please keep it at 50 degrees Celsius
9	Emergency Stope	• Check that the emergency stop switch is pressed(Optional)
10	Tamper Detectede	• Check that the charger cover is closed(Optional)
11	Energy meter communication fault	• Check whether the communication cable of the chargermeter is properly connected or loose • Check that the baud rate of the meter is 9600(Optional)
12	Diode missing	• No vehicle diode detected, If it is not a real car, pleaseconfirm the presence of a diode
13	DLB communication fault	• Please check whether the RS485 communication cable is connected correctly

Maintenance

To ensure long-term stable operation of the equipment, the equipment does require some basic, common sense maintenance. The exterior maintenance can be performed by the user. All other service must be conducted by qualified personnel. It is recommended to perform a maintenance every month depending on the environment.

- To avoid accumulation of debris/dust/dirt on or around the unit, wipe surfaces with a soft cloth dampened with water, or for harder to remove marks, use an alcohol based cleaner.
- Check whether the equipment is properly grounded and safe.
- Check whether there are potential safety hazards like flammable, explosive, harsh or combustible materials around the charger. If present, clear the materials.
- Check for debris or damage inside or around the cable and connector. If present, remove debris and/or contact a qualified personnel for help.
- Check for loose connections. If present, unplug the cable and re-insert it.

11.Warranty

We offers a limited 3-year wallbox warranty and 1-year plug and cable warranty from the date of purchase of the equipment.
The limited warranty does not apply to, and EVSElink will not be responsible for, any defect in or damage to the charger: (1) that has been misused, neglected, tampered with, altered, or otherwise damaged, either internally or externally; (2) that has been improperly installed, operated, handled or used, including use under conditions for which the product was not designed, use in an unsuitable environment, or use in a manner contrary to the User Manual or applicable laws or regulations; (3) that has been subjected to fire, water, generalized corrosion, biological infestations, acts of God, or input voltage that creates operating conditions beyond the maximum or minimum limits listed in the specifications; or (4) that has been subjected to incidental or consequential damage caused by defects of other components of the electrical system.
If you have any questions, please contact us via email.