



MaxiCharger DS480 & DT500/DT800

Installation Commissioning Guide

Version 2.2

Technical Service Department

Revision History

Date	Version	Editor	Revisions
2025-05-12	1.0	Yingrui He	Initiate document.
2025-05-30	1.1	Yingrui He	Clarified the title of section 2.5.1 ~ 2.5.3 as 'Independent commissioning checklists.
2025-08-18	1.2	Yingrui He	Modified the pictures of the inside structure of DS480, DT500, and DT800 in section 2.4.1.3 , 2.4.2.2 , 2.4.3.2 , 2.5.1 , 2.5.2 , and 2.5.3 .
2025-08-26	1.3	Yingrui He	Added NOTICE in section 2.5.2 and 2.5.3 .
2025-08-29	2.0	Yingrui He	Modify the commissioning record table in section 2.3
2025-09-02	2.1	Yingrui He	<ul style="list-style-type: none">• Modify the marks on the picture of the four doors of DS480 power cabinet.• Modify the picture title in check item 1-c) in the section 2.5.1.1.
2025-09-09	2.2	Yingrui He	Update the label picture.

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1 Safe and Usage Instruction

1.1 DANGER, WARNING, and NOTICE statements

Statement	Symbol	Description
DANGER		Indicates an imminently hazardous situation with a high-risk level which, if the danger is not avoided, will cause death or serious injury.
WARNING		Indicates a potentially hazardous situation with moderate risk level which, if the warning is not obeyed, can cause death or serious injury.
NOTICE		Provides helpful information such as additional explanations, tips, and comments

1.2 Purpose and intended audience

This manual applies to the MaxiCharger DS480 (the power cabinet), DT800 (the liquid cooling dispenser) and DT500 (the air cooling dispenser) that are produced by Autel Intelligent Technology Corp., Ltd., (referred to as “Autel” in this manual). The Maxicharger DS480, DT800 and DT500 are intended exclusively for charging electric vehicles and when installed correctly, can be used by untrained individuals. Follow this manual to commission and operate the power cabinet and dispenser correctly.

Installation, commissioning and maintenance of the power cabinet and dispenser can be performed only by a qualified electrician who has the following capabilities:

- Expertise on general and specific rules regarding safety and incident prevention.
- Comprehensive knowledge of applicable electrical regulations.
- Ability to identify risks and avoid potential hazards.
- Familiarity to the installation and operation instructions described in this document.

1.3 Improper use

Using Maxicharger DS480 & DT500 or DS480 & DT800 is safe as long as it is used as intended. Any other use or changes to the power cabinet and dispenser are considered improper use and therefore not allowed. The operator, owner or qualified technician is responsible for any personal injury or product damage arising from improper use.

1.4 Disclaimer

This document is subjected to rigorous technical review before release. It is revised at regular intervals, and any modifications and amendments are included in the subsequent chapters. Although Autel has made its best efforts to keep the document as precise and up-to-date as possible, Autel does not assume any liability for defects and damage which results from the use of the information contained herein.



NOTICE

This manual is subject to updates and changes. The latest version is available for download on Autel official website. Errors and omissions excepted.

Any modifications to the product assembled by Autel may affect the product performance, such as the user experience, appearance, quality and lifespan. These custom modifications (customization) include but are not limited to the placement of stickers and SIM cards or the usage of different colors. Autel is not liable for any damage to, or caused by the customized product if the damage is caused by this applied customization.

1.5 Safety warnings

The safety messages herein cover situations of which Autel is aware. Autel cannot know, evaluate or advise you as to all of the possible hazards. You must ensure your personal safety before performing any service procedure.

1.5.1 General warnings

- Read and follow all warnings and instructions before commissioning the charger.

- Do not attempt to operate or repair the power cabinet and dispenser unless you have electrician qualifications. Only a qualified electrician is allowed to operate, service, repair, and commission the charger.
- Perform a risk assessment before performing any electrical work. The assessment includes: electrical hazard identification, job analysis, risk control measures.

1.5.2 Power and installation

- Switch off the input power before installing the charger. Keep the power off until it is fully installed and secure.
- Do not commission or open the power cabinet and dispenser in wet environments (such as rain or heavy fog).
- Install and commission the power cabinet and dispenser according to local regulations. Local regulations may vary based on different countries or regions.
- Complete the following steps before you perform O&M operations on electrical systems: inspection and testing procedures, preventive maintenance, and troubleshooting.

1.5.3 Fire and explosion hazards

- Do not use explosive or readily flammable substances near the charger.
- (Optional) Install a fire alarm system to detect fires at an early stage.
- Refer to the vehicle user manual to check if the vehicle releases hazardous or explosive gas during charging.

1.5.4 Handling and usage

- Do not operate the power cabinet and dispenser if the cabinet, the charging cable, or the connector is frayed, broken, damaged, or cannot work properly.
- Place the charging cable where it cannot be stepped on, tripped over, driven over, or otherwise subjected to excessive force or damage. Ensure that the charging cable is correctly stowed when not in use and that the connector does not touch the ground.
- Do not insert fingers into the charging port.
- Do not leave objects inside the charging port.

- Keep the connector away from heat sources, dirt, and water.
- Keep the power cabinet and dispenser away from direct water flow.
- Do not operate the power cabinet and dispenser with wet hands.
- Do not put the connector into any liquid.

1.5.5 Compatibility and compliance

- Use this power cabinet and dispenser to charge only compatible electric vehicles. Refer to the technical specifications in this manual and the vehicle manual to check if the vehicle is compatible.
- Use the power cabinet and dispenser only under the conditions specified in this manual.
- Do not use adaptors, conversion adapters, or cord extension sets.
- Ensure that the charging cable is not damaged or tangled prior to use.
- Use of the power cabinet and dispenser may affect or impair the operation of any medical or implantable electronic devices, such as an implantable cardiac pacemaker or an implantable cardioverter defibrillator. Check with your electronic device manufacturer concerning the effects that charging may have on such electronic devices before using the charger.

1.5.6 Emergency procedure

- Disconnect the power supply of the power cabinet and dispenser immediately in the event of danger or accident.
- Respond to the emergency by performing operations including but not limited to: emergency power shutdown and first aid and resuscitation measures.

1.5.7 Personal protection

- Wear PPE (Personal Protective Equipment) such as protective suit, eye protection, mask protection, cut-resistant gloves, and non-slip safety shoes before commissioning the charger.
- Complete relevant training courses before you engage in electrical work. The training content includes: basic knowledge of electrical safety, practical operation skills, response procedures in emergency situations.

1.5.8 Disposal instruction

Handling waste incorrectly can have a negative impact on the environment and human health due to potentially toxic substances. Discarding the power cabinet and dispenser correctly can facilitate the reuse and recycling of materials and contribute to environmental protection.

- Follow local regulations when you dispose parts, packaging materials, or chargers.
- Discard electrical and electronic equipment separately in compliance with the WEEE-2012/19/EU Directive on waste of electrical and electronic equipment.
- Do not mix the dispose of the power cabinet and dispenser with that of household waste.

2 Commissioning Guide and Checklists

2.1 Overview

While Autel chargers are extensively tested in the factory before distribution, they could fail if damages occur during transportation or installation. This manual describes the installation commissioning of the MaxiCharger DS480, DT800 (the liquid cooling dispenser) and DT500 (the air cooling dispenser). You can follow this manual to check whether the power cabinet and dispenser is installed properly and ensure smooth operations.

2.2 Preparation

1. Ensure that a qualified electrician is on site to provide technical support.
2. Prepare the following tools for commissioning.
 - Multimeter
 - Voltage tester
 - Cellular signal detection device
 - Philips screwdriver
 - Slotted screwdriver
 - Socket wrench (7 mm/8 mm/10 mm/16 mm)
 - Hex wrench
 - Anti-static wrist strap
 - Insulating gloves
 - Temperature measuring gun
 - Lock key
 - Cable tie
 - Pliers
3. Contact the customer to confirm that the power cabinet and dispenser is ready for commissioning.
4. Confirm that all parts are already installed.
5. Confirm that no extreme weather condition is expected to occur during commissioning, such as rainstorm, thunderstorm, or strong wind.

2.3 Basic information

Autel DS480 Installation Commissioning Record					
Site address					
Site owner					
Company					
Company attendance					
Electrical contractor (Installer)		Contact details		Date of installation	
Certified commissioner		Contact details		Date of commissioning	
Charger SN			Charging module (number & type)		
Designed short- circuit current			Measured short- circuit current		
AC supply cable nominal max current			DC power cable nominal max current		

Autel DT500 Installation Commissioning Record

Site address					
Site owner					
Company					
Company attendance					
Electrical contractor (Installer)		Contact details		Date of installation	
Certified commissioner		Contact details		Date of commissioning	
Charger SN			Fuse size		
Charging cable length			Charging cable connector (e.g. 2×CCS)		
Designed short- circuit current			Measured short- circuit current		
AC supply cable nominal max current			DC power cable nominal max current		

Autel DT800 Installation Commissioning Record

Site address					
Site owner					
Company					
Company attendance					
Electrical contractor (Installer)		Contact details		Date of installation	
Certified commissioner		Contact details		Date of commissioning	
Charger SN			Fuse size		
Charging cable length			Charging cable connector (e.g. 2×CCS)		
Designed short- circuit current			Measured short- circuit current		
AC supply cable nominal max current			DC power cable nominal max current		

2.4 Appearance

2.4.1 DS480 Power cabinet

2.4.1.1 Outside overview

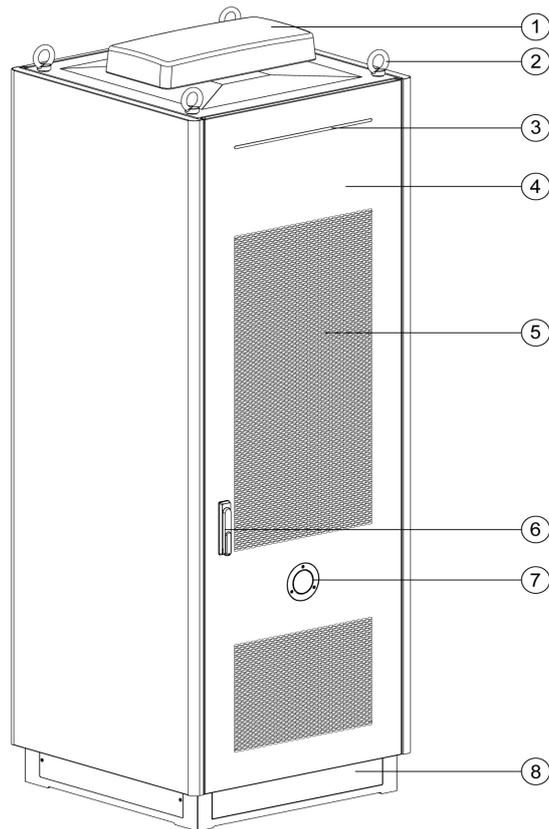


Figure 2-1 Outside overview of power cabinet DS480

- | | |
|------------------------|--------------------------|
| 1. Antenna | 5. Vent |
| 2. Eye bolt | 6. Door lock |
| 3. LED indicator light | 7. Emergency stop button |
| 4. Front door | 8. Base cover |

2.4.1.2 Overview of doors and their usage

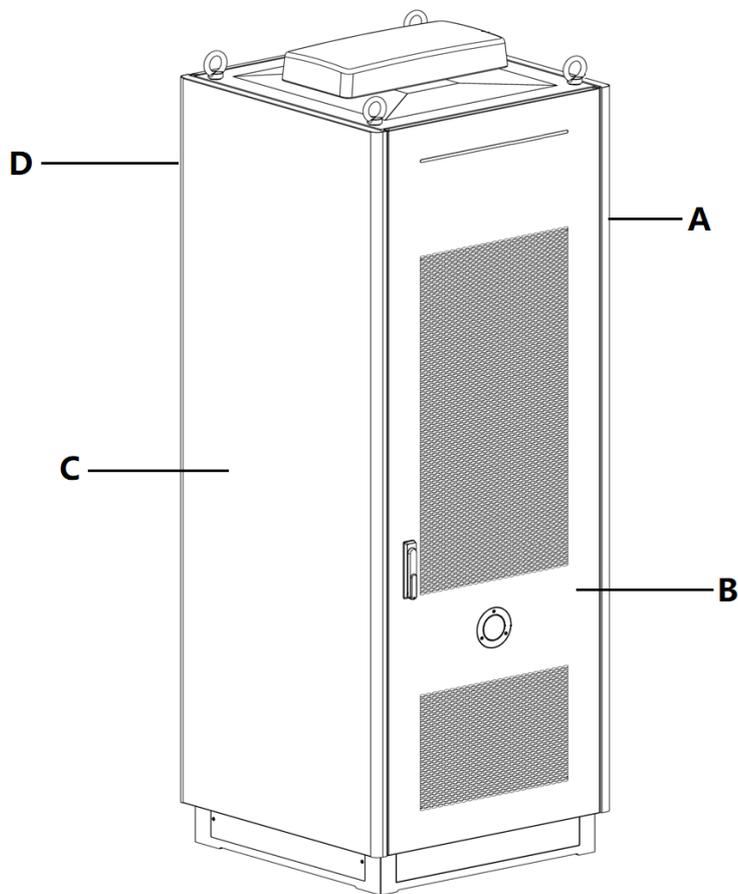


Figure 2-2 Four doors of DH480

Door A – in the right of the Door B

Door B – with the Emergency stop button and the air inlet

Door C – in the left of the Door B

Door D – without the Emergency stop button, and with the air outlet, opposite to Door B

Note: you do not need to open doors A and C for installation commissioning.

2.4.1.3 Inside overview



NOTICE

Use the CE version cabinet as an example.

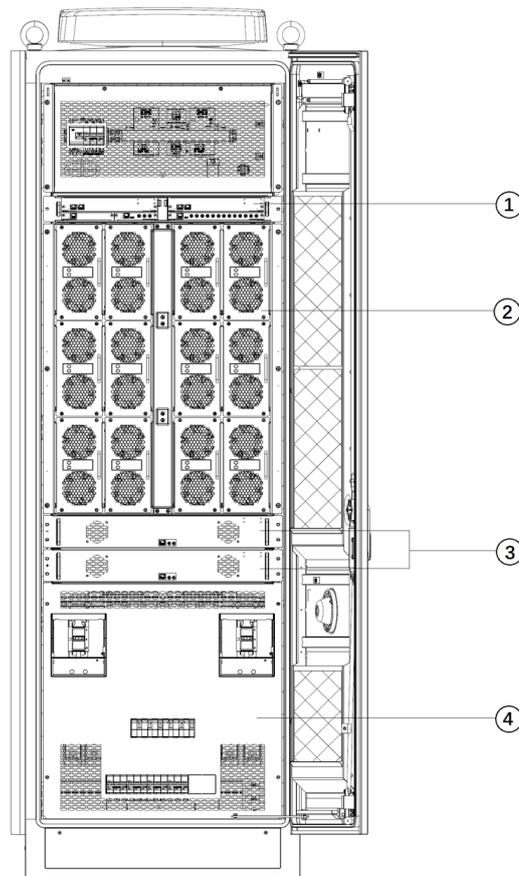


Figure 2-3 Inside overview of power cabinet DS480

1. Control module
2. Charging module
3. Matrix module
4. AC input unit

2.4.2 DT500 Air cooling dispenser

2.4.2.1 Outside overview

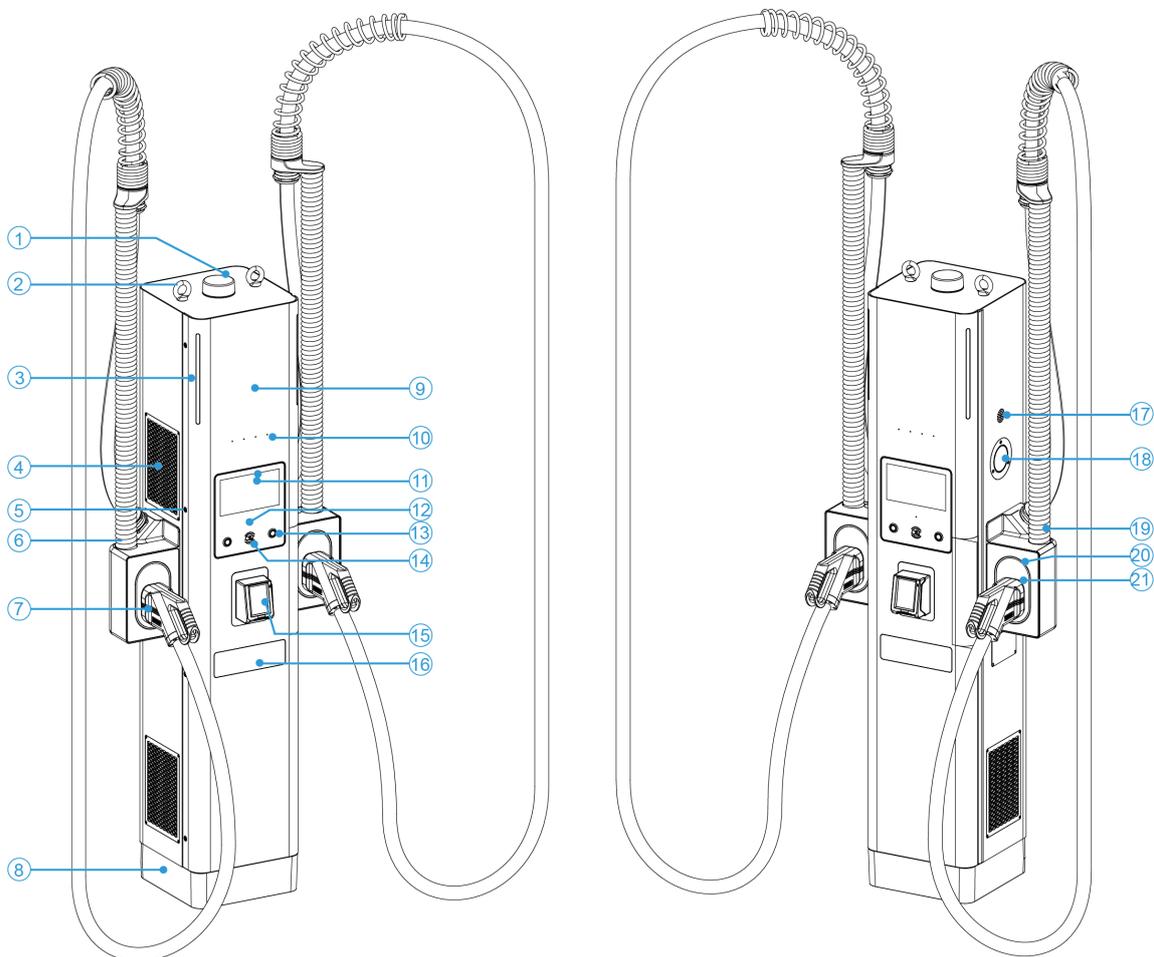


Figure 2-4 Outside overview of the air cooling dispenser DT500 with two charging handles

1. Antenna
2. Eye bolt
3. LED indicator light
4. Vent of the cabinet
5. Door lock screw
6. Waterproof cable fixing connector
7. Charging handle
8. Base
9. Front door
10. Microphone
11. Touchscreen
12. Ambient light sensor
13. Operation button
14. RFID reader
15. (Optional) POS device
16. (Optional) External meter display
17. Loudspeaker
18. Emergency stop button
19. CMS
20. Socket indicator
21. Socket

2.4.2.2 Inside overview

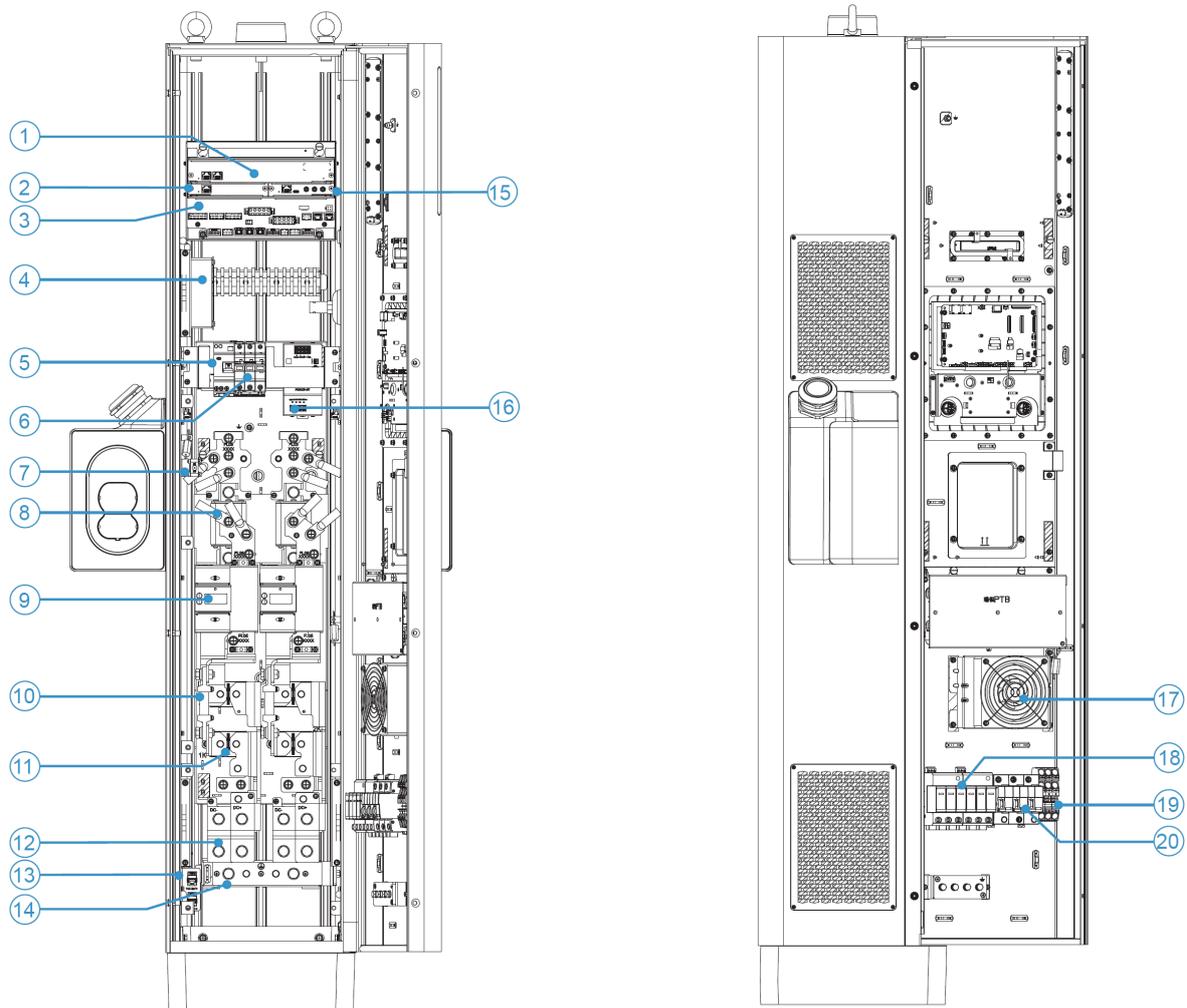


Figure 2-5 Inside overview of the air cooling dispenser DT500 with two charging handles

- | | |
|------------------------------------|---|
| 1. CCU | 11. DC Contactor |
| 2. ECU | 12. DC input terminal |
| 3. Backplane of the control module | 13. Ethernet port |
| 4. Cooling fan | 14. PE bus bar |
| 5. RCD | 15. Dispenser TCU |
| 6. MCB | 16. Auxiliary power supply (480W) |
| 7. Door limit switch | 17. Internet turbulence fan |
| 8. Fuse | 18. DC surge protective device (DC SPD) |
| 9. Meter | 19. AC surge protective device (AC SPD) |
| 10. Shunt | 20. AC input terminal |

2.4.3 DT800 Liquid cooling dispenser

2.4.3.1 Outside overview

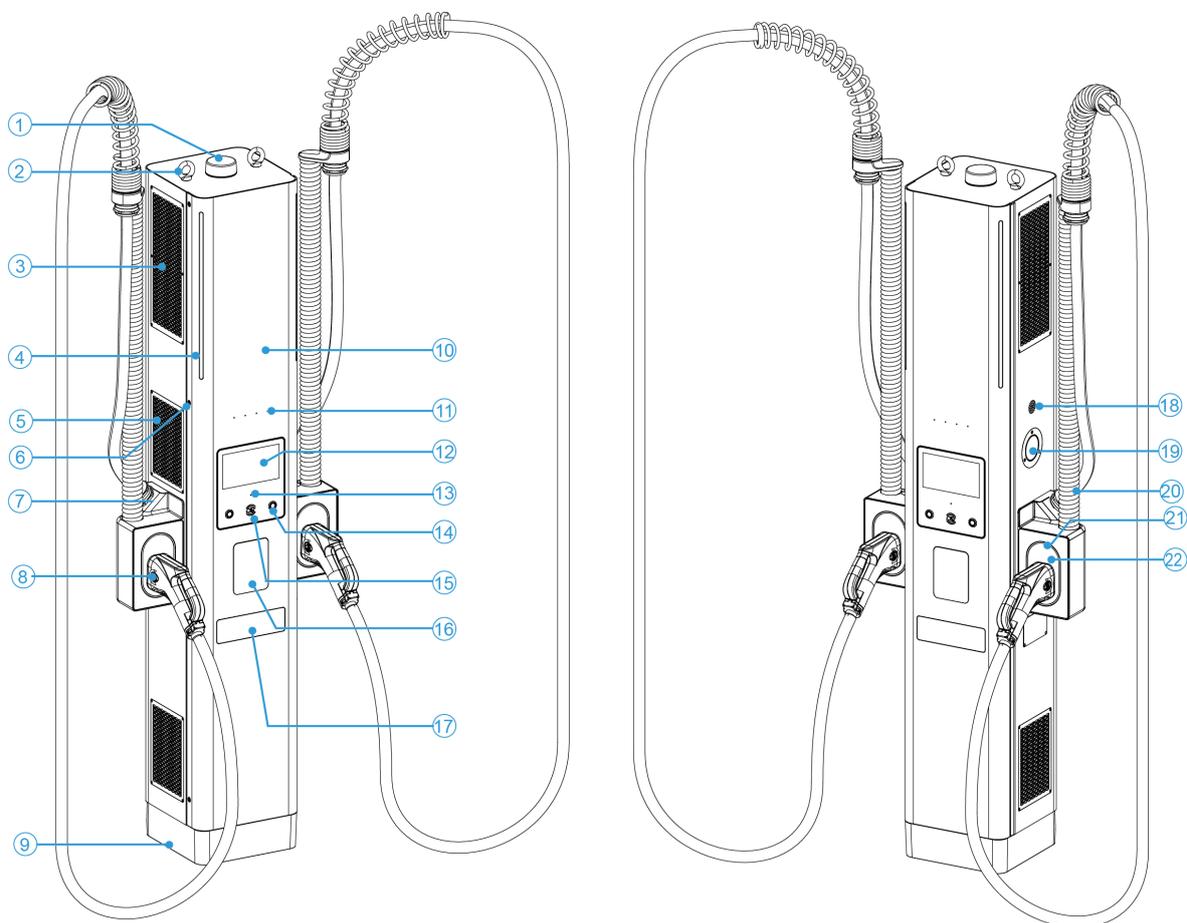


Figure 2-6 Outside overview of the liquid cooling dispenser DT800 with two charging handles

- | | |
|--------------------------------------|---------------------------------------|
| 1. Antenna | 12. Touchscreen |
| 2. Eye bolt | 13. Ambient light sensor |
| 3. Vent of liquid cooling system | 14. Operation button |
| 4. LED indicator light | 15. RFID reader |
| 5. Vent of the cabinet | 16. (Optional) POS device |
| 6. Door lock screw | 17. (Optional) External meter display |
| 7. Waterproof cable fixing connector | 18. Loudspeaker |
| 8. Charging handle | 19. Emergency stop button |
| 9. Base | 20. CMS |
| 10. Front door | 21. Socket indicator |
| 11. Microphone | 22. Socket |

2.4.3.2 Inside overview

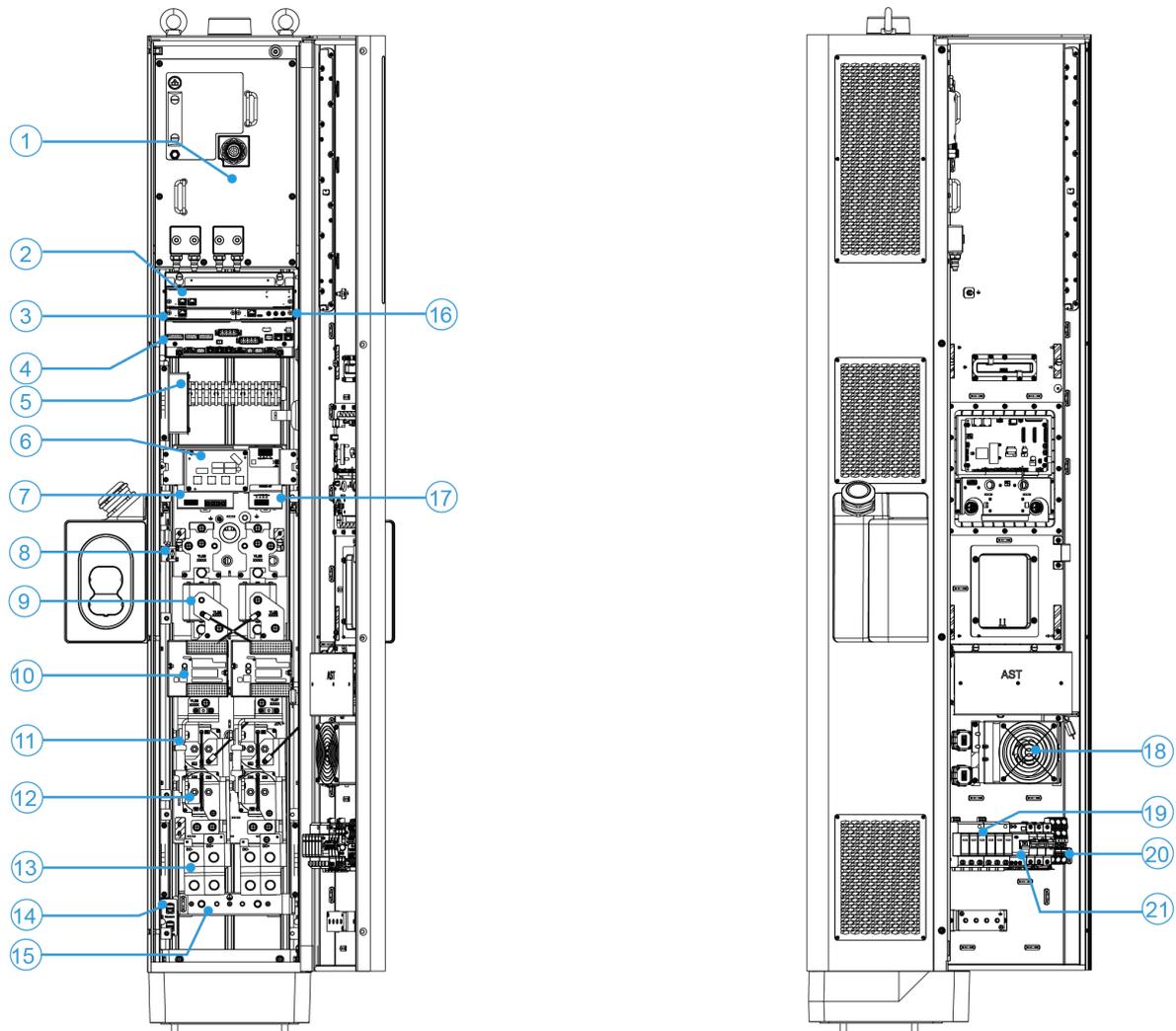


Figure 2-7 Inside overview of the liquid cooling dispenser DT800 with two handles

- | | |
|--|---|
| 1. Liquid cooling system | 12. DC Contactor |
| 2. CCU | 13. DC input terminal |
| 3. ECU | 14. Ethernet port |
| 4. Backplane of the control module | 15. PE bus bar |
| 5. Cooling fan | 16. Dispenser TCU |
| 6. AC surge protection device (AC SPD) | 17. Auxiliary power supply (480W) |
| 7. Auxiliary power supply (960W) | 18. Internet turbulence fan |
| 8. Door limit switch | 19. DC surge protective device (DC SPD) |
| 9. Fuse | 20. MCB |
| 10. Meter | 21. RCD |
| 11. Shunt | |

2.5 Commissioning checklists

For independent commissioning checklist of power cabinet, refer to section [2.5.1](#) .

For independent commissioning checklist of air cooling dispenser, refer to section [2.5.2](#) .

For independent commissioning checklist of liquid cooling dispenser, refer to section [2.5.3](#).

For joint function commissioning checklist of power cabinet and dispenser, refer to section [2.5.4](#) .

2.5.1 DS480 independent commissioning checklist



WARNING

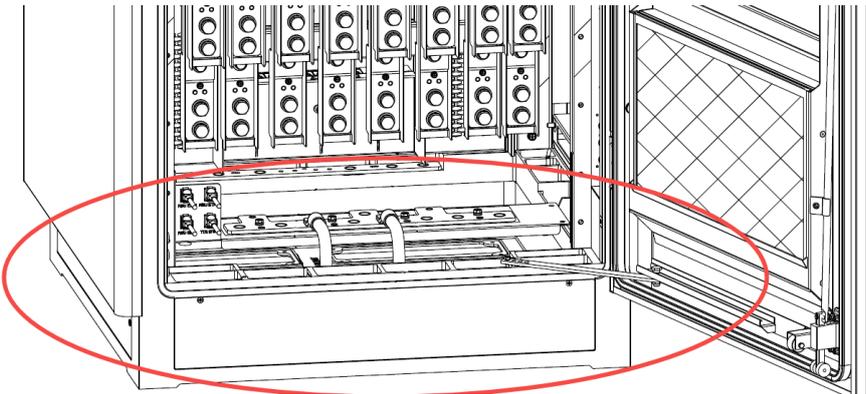
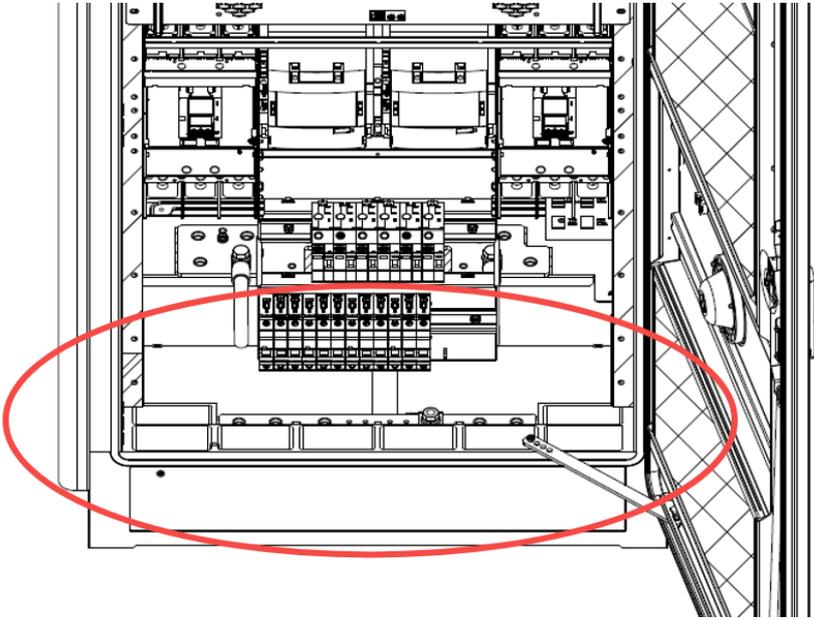
The following procedure introduces you to a potentially hazardous situation which, if not avoided, could result in death or serious injury

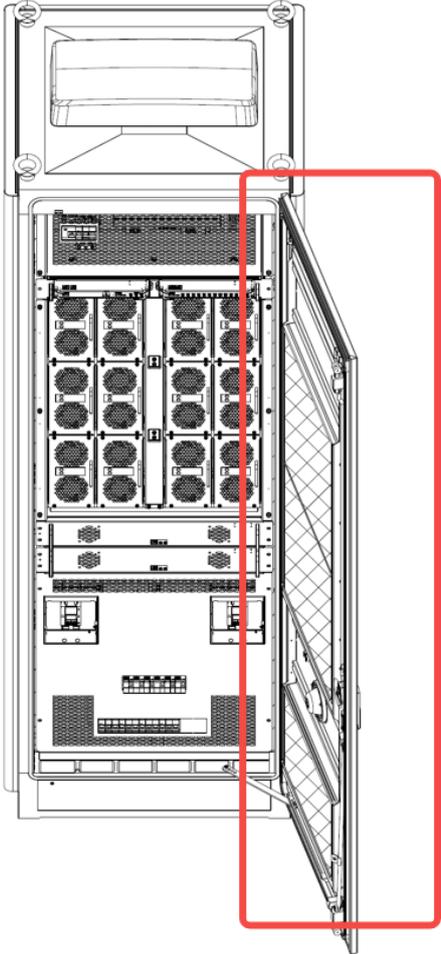
2.5.1.1 DS480 cabinet checklist

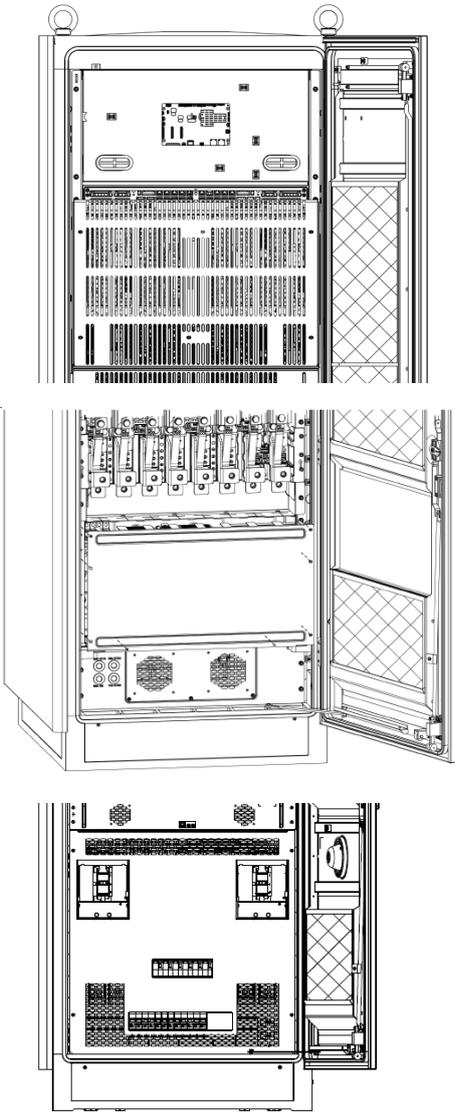
Ensure that **the upstream breaker stays in the OFF position** during the entire commissioning procedure in section [DS480 cabinet checklist](#). **Make sure that you take pictures of each required check step unless the note says otherwise.**

Check item	Check result
<p>1. Appearance and label</p> <p>a) Appearance:</p> <ul style="list-style-type: none">• No apparent deformation or scratches exist.• The paint on the cabinet is in good condition. <p><i>Note: If no problem exists, no picture required.</i></p> <p>Example:</p>	

Check item	Check result
<div> </div> <p style="text-align: center;"><i>Appearance of DS480</i></p> <p>b) Label and tags:</p> <ul style="list-style-type: none"> • The label is in place. • Check whether the nameplate, safety tags, and warning tags are pasted in place and all the information is correct. <p>Example:</p> <div> </div> <p style="text-align: center;"><i>Label of DS480</i></p>	

Check item	Check result
<p>c) Check the installation of the cabinet base:</p> <ul style="list-style-type: none"> • The screws model is correct, there are no missing bolts or looseness. • The baffles of the cabinet base are well installed without gap. <p>Example:</p>  <p><i>Open Door D to check the base installation</i></p>  <p><i>Open Door B to check the base installation</i></p>	

Check item	Check result
<p>2. Internal check</p> <p>a) Check the cabinet door</p> <ul style="list-style-type: none"> • The cabinet door is not deformed, damaged, or dented. • The door opens and closes normally. • The sealing strip is intact, ensuring the waterproofness of the charger. <p><i>Note: If no problem exists, no picture required.</i></p> <p>Example:</p>  <p style="text-align: center;"><i>Door B for example</i></p>	

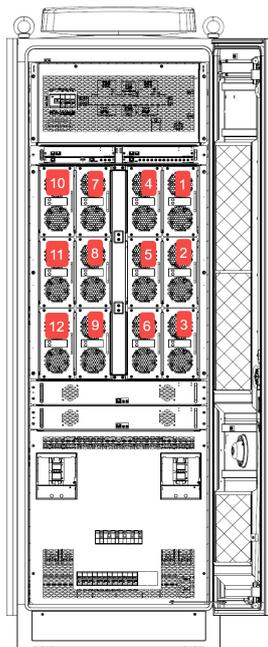
Check item	Check result
<p>b) Check the internal integration:</p> <ul style="list-style-type: none"> • No remaining screws or tools left on the bottom of the charger. • The covers are intact and free from deformation. <p>Note: If no problem exists, no picture required</p> <p>Example:</p>  <p style="text-align: center;"><i>Internal integration of DS480</i></p>	

Check item	Check result
------------	--------------

c) Check the module:

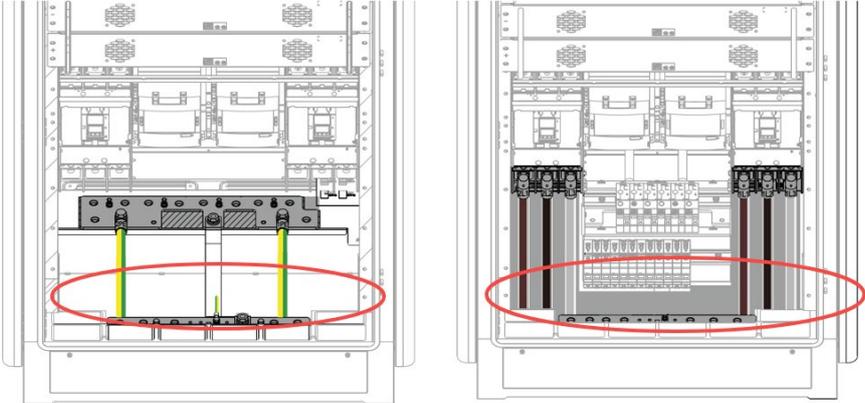
- Each charging module is properly installed without looseness.
- The handle installed on the modules should be on the right side and face outward.
- The slots where the charging modules are not inserted are sealed with filler modules.
- The number of charging modules is in accordance with customer's charging power system.

Example:



Rated Power	Number of Modules	Location
160 kW	4 PCS	2, 5, 8, 11
200 kW	5 PCS	2, 5, 6, 8, 11
240 kW	6 PCS	2, 5, 6, 8, 9, 11
280 kW	7 PCS	2, 3, 5, 6, 8, 9, 11
320 kW	8 PCS	2, 3, 5, 6, 8, 9, 11, 12
360 kW	9 PCS	1, 2, 3, 5, 6, 8, 9, 11, 12
400 kW	10 PCS	1, 2, 3, 4, 5, 6, 8, 9, 11, 12
440 kW	11 PCS	1, 2, 3, 4, 5, 6, 8, 9, 10, 11, 12

Number & address of the charging module to the rated power

Check item	Check result
<p>3. Cable connection</p> <p>a) Check AC cable and PE cable and the inlet:</p> <ul style="list-style-type: none"> • The inlet is sealed without gaps. • The fireproof mortar is hardened and in good condition. • The AC and PE cables are good in the correct connection sequence. <p>Example:</p>  <p><i>AC cable and PE cable and the inlet of DS480 power cabinet</i></p>	

2.5.1.2 DS480 electrical component checklist

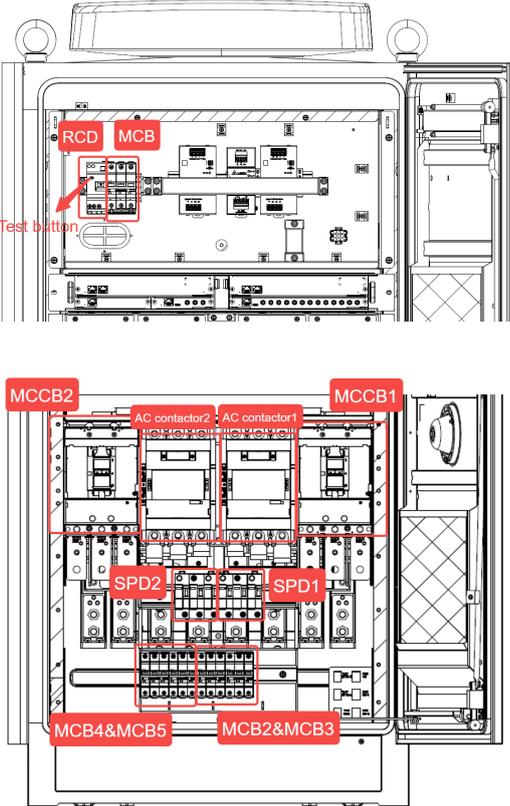
DANGER



- The following check items should be strictly operated by professional technicians under protection of safety equipment. Otherwise, your personal safety may be compromised.
- Do not perform any operations on the components that are not mentioned in the check items in **DS480 electrical component checklist**.

Power on the power cabinet before you perform the commission procedure in section **DS480 electrical component checklist**. Make sure that you **take pictures of each required check step unless the note says otherwise**.

Check item	Check result
<p>1. Charging module</p> <p>The address of each charging module is correct in accordance with its location</p> <p>Note: Section Charging module in <Spare Part Replacement Manual> shows steps for checking address of the charging module.</p> <p>Example:</p> <div style="text-align: center;"> </div> <p><i>Each charging module shows no ERR and has the correct address</i></p>	

Check item	Check result
<p>2. Breaker test:</p> <ul style="list-style-type: none"> • After powering on DS480 power cabinet, turn off the MCCB switch and the charging modules will light off. Then recover it. • Press the test button on RCD, and the RCD and MCB will switch off automatically. Then recover the MCB and RCD. • Check the indicator window of the SPD, if the indicator window is red, the SPD needs to be changed. <p><i>Note: If no problem exists, no picture required.</i></p> <p>Example:</p>  <p style="text-align: center;"><i>Breakers of DS480</i></p>	

2.5.2 DT500 independent commissioning checklist



WARNING

The following procedure introduces you to a potentially hazardous situation which, if not avoided, could result in death or serious injury.

NOTICE

- If you need to open the front door to perform the installation commissioning procedure, please take out the right Charging cable connector from the socket in the right side of the cabinet before you open the door.
- After you close the front door when you finish the installation commissioning procedure, you need to plug the connector back in to the socket in the right side of the cabinet.

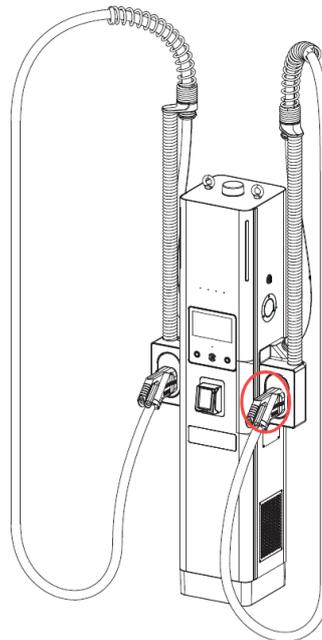
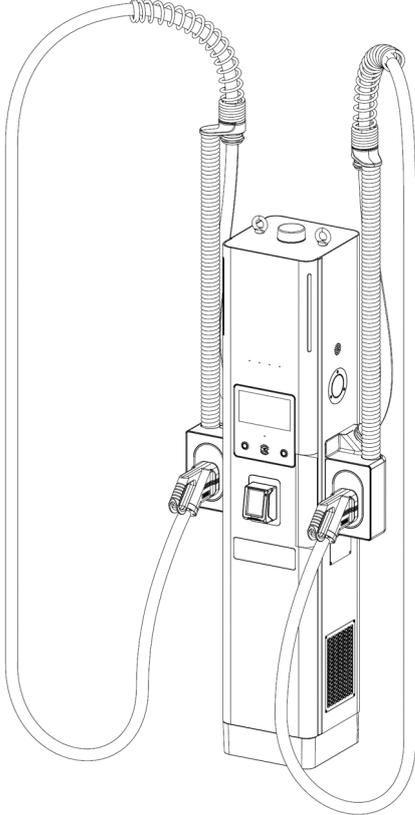


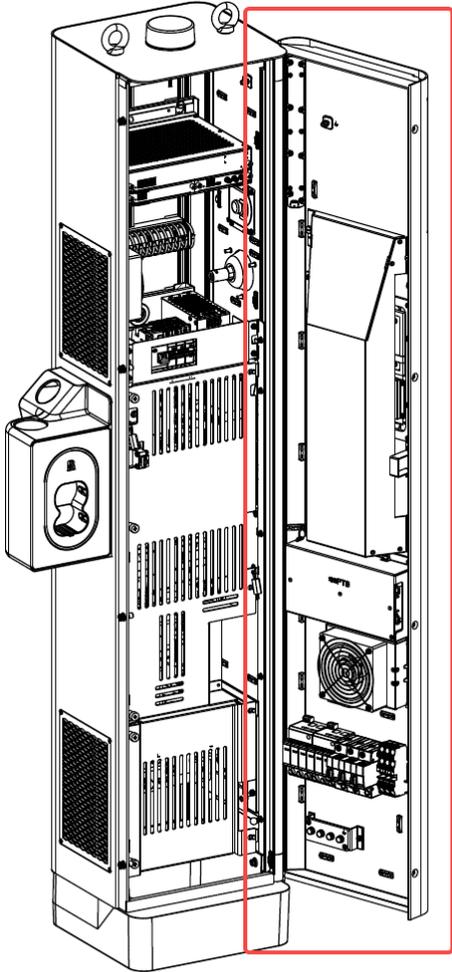
Figure 2-8 The right Charging cable connector

2.5.2.1 DT500 cabinet checklist

Ensure that the upstream breaker stays in the OFF position during the entire commissioning procedure in section **DT500 cabinet checklist**. Make sure that you **take pictures of each required check step unless the note says otherwise**.

Check item	Check result
<p>1. Appearance and label</p> <p>a) Appearance:</p> <ul style="list-style-type: none">• No apparent deformation or scratches exist on the outside of the cabinet and on the charging cable.• The paint on the cabinet is in good condition. <p><i>Note: If no problem exists, no picture required.</i></p> <p>Example:</p>  <p><i>Appearance of DT500</i></p>	

Check item	Check result
<p>b) Label & tags:</p> <ul style="list-style-type: none"> The label is in place. Check whether the nameplate, safety tags, and warning tags are pasted in place and all the information is correct. <p>Example:</p> <div> </div> <p style="text-align: center;"><i>Label of DT500</i></p> <p>c) Check the installation of the cabinet base:</p> <ul style="list-style-type: none"> The screws model is correct, there are no missing bolts or looseness. The baffles of the cabinet base are well installed without gap. <p>Example:</p> <div> </div> <p style="text-align: center;"><i>Cabinet base of DT500</i></p>	

Check item	Check result
<p>2. Internal check</p> <p>a) Check the cabinet door.</p> <ul style="list-style-type: none"> • The cabinet door is not deformed, damaged, or dented. • The door opens and closes normally. • The sealing strip is intact, ensuring the waterproofness of the charger. <p><i>Note: If no problem exists, no picture required.</i></p> <p>Example:</p>  <p style="text-align: center;"><i>Cabinet door of DT500</i></p>	

Check item	Check result
<p>b) Check the internal integration:</p> <ul style="list-style-type: none"> • No remaining screws or tools left on the bottom of the charger. • The PC covers are intact and free from deformation. <p><i>Note: If no problem exists, no picture required.</i></p> <p>Example:</p> <div> </div> <p><i>Internal integration of DT500</i></p>	
<p>3. Cable connection</p> <p>a) Check the inlet:</p> <ul style="list-style-type: none"> • The inlet is sealed without gaps. • The fireproof mortar is hardened and in good condition. <p>Example:</p> <div> </div> <p><i>Position of inlet of DT500</i></p>	

Check item	Check result
------------	--------------

b) Check DC & PE cable connection between DS480 and DT500:
 The DC & PE cables are good in the correct cable connection sequence.

Example:

No.	Wiring	Device	Screw	Torque	Socket Wrench
1	PE cable (yellow/green)	DS480	M12 × 40 (A)	55 ± 5 N·m	18 mm
2		DT500	M10 × 25 (B)	23 ± 10% N·m	16 mm
3	DC cable (red/black)	DS480	M12 × 40 (A)	55 ± 5 N·m	18 mm
4		DT500	M10 × 25 (B)	23 ± 10% N·m	16 mm

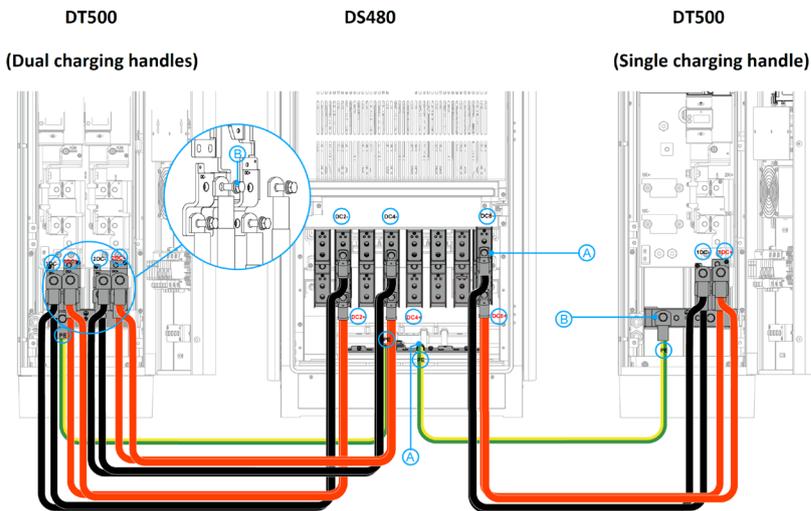


Figure Connecting DS480 to DT500

NOTICE



- DT500 dispensers are recommended to connect to DC2, DC4, DC6, and DC8, ports on DS480, which provide higher output power.
- If these ports (DC2/4/6/8) are occupied by liquid-cooled dispensers, use DC1, DC3, DC5, or DC7 instead.

DC & PE cable connection between DS480 and DT500

Note:

Please refer to the Installation Manual to get latest pictures and information.

Check item**Check result**

c) Check AC Auxiliary power cable connection between DS480 and DT500:

The cables are good in the correct connection sequence.

Example:

No.	Device	Notes
1	DS480	<ul style="list-style-type: none"> Loosen the terminal screws on the AC circuit breaker using a Phillips screwdriver. Insert the wires. Tighten the screws to 2.8 ± 0.5 N·m.
2	DT800/DT500	<ul style="list-style-type: none"> Use a Phillips screwdriver to press down the orange spring clamps. While holding them down, insert the wires fully into the terminals. Release the clamps to secure the wires.

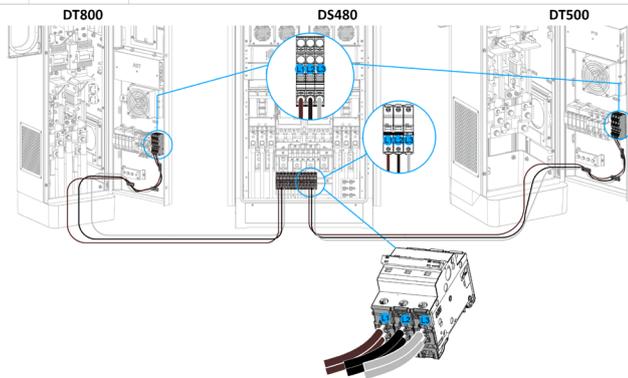


Figure Connecting the AC Auxiliary Power Cable of Liquid-cooled Dispenser

NOTICE

- Each DS480 cabinet has 4 terminal blocks (L1/L2/L3), supporting front and rear wiring for up to 8 dispensers.
- 1st – 4th dispensers: connect them to the front side of the blocks.
- 5th – 8th dispensers: connect them to the rear side of the blocks (e.g., connecting the 5th dispenser to the rear side of first block).

AC Auxiliary wiring connection between DS480 & DT500/DT800

Note:

Please refer to the Installation Manual to get latest pictures and information.

2.5.2.2 DT500 electrical component checklist

DANGER



- The following check items should be strictly operated by professional technicians under protection of safety equipment. Otherwise, your personal safety may be compromised.
- Do not perform any operations on the components that are not mentioned in the check items in **DT500 electrical component checklist**

Power on the cabinet before you perform the commission procedure in section **DT500 electrical component checklist**.

. Make sure that you **take pictures of each required check step unless the note says otherwise**.

Check item	Check result
<p>1. Breaker test:</p> <ul style="list-style-type: none"> • After powering on the DT500 dispenser, press the test button on RCD, and the RCD and MCB will switch off automatically. Then recover the MCB and RCD. • Check the indicator window of the SPD, if the indicator window is red, the SPD needs to be changed. <p>Note: If no problem exists, no picture required.</p> <p>Example:</p> <div style="text-align: center;"> </div> <p style="text-align: center;"><i>Breakers of DT500</i></p>	

2.5.3 DT800 independent commissioning checklist



WARNING

The following procedure introduces you to a potentially hazardous situation which, if not avoided, could result in death or serious injury.

NOTICE

- If you need to open the front door to perform the installation commissioning procedure, please take out the right Charging cable connector from the socket in the right side of the cabinet before you open the door.
- After you close the front door when you finish the installation commissioning procedure, you need to plug the connector back in to the socket in the right side of the cabinet.

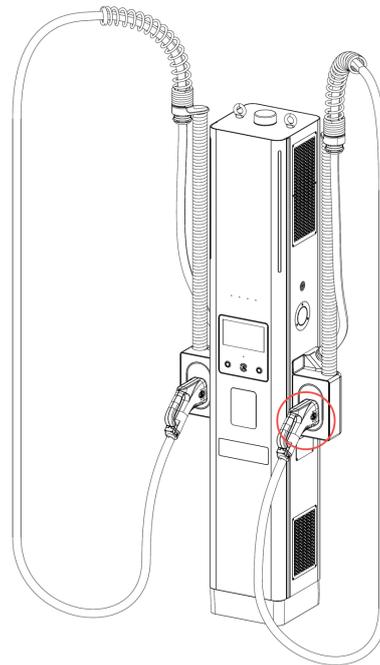
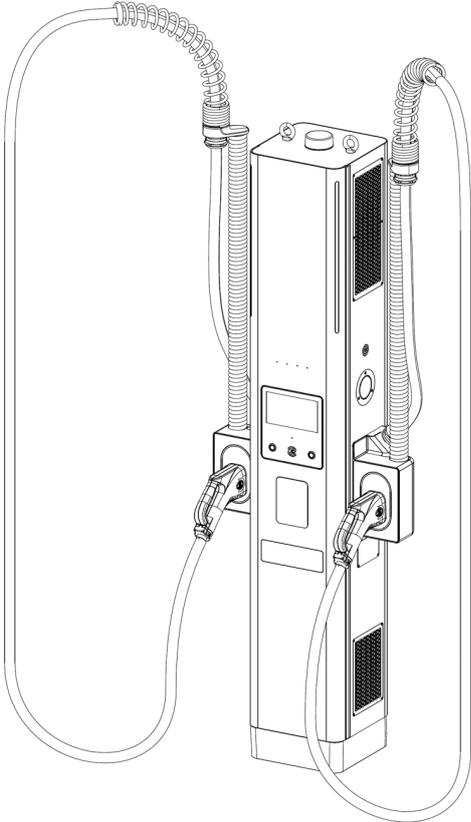


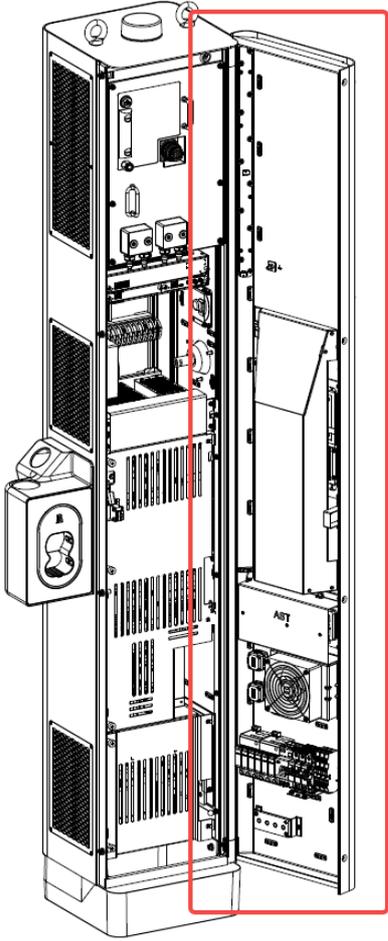
Figure 2-9 The right Charging cable connector

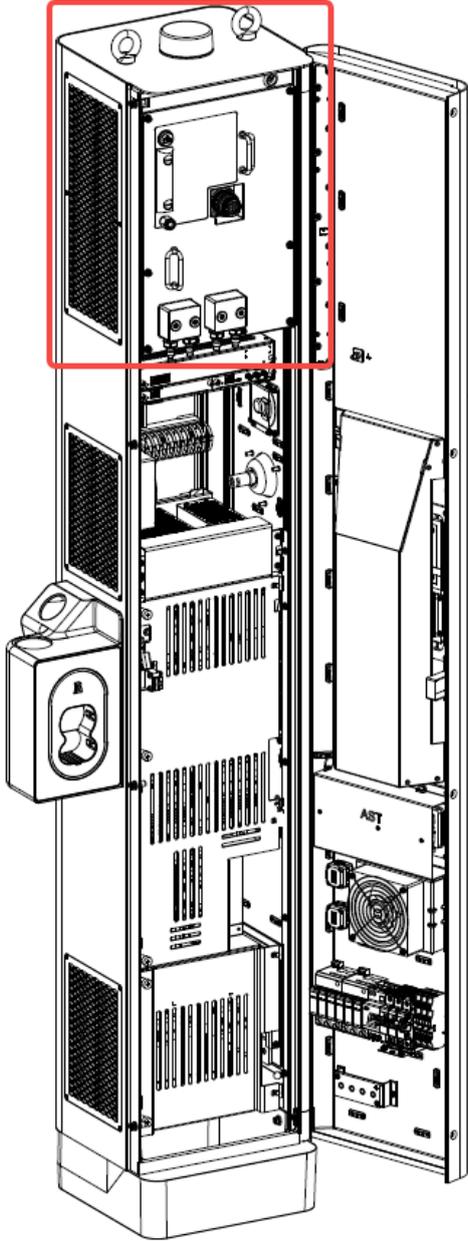
2.5.3.1 DT800 cabinet checklist

Ensure that the upstream breaker stays in the OFF position during the entire commissioning procedure in section **DT800 cabinet checklist**. Make sure that you **take pictures of each required check step unless the note says otherwise**.

Check item	Check result
<p>1. Appearance and label</p> <p>a) Appearance:</p> <ul style="list-style-type: none"> No apparent deformation or scratches exist on the outside of the cabinet and on the charging cable. The paint on the cabinet is in good condition. <p><i>Note: If no problem exists, no picture required.</i></p> <p>Example:</p>  <p style="text-align: center;"><i>Appearance of DT800</i></p>	

Check item	Check result
<p>b) Label:</p> <p>Check whether the nameplate, safety tags, and warning tags are pasted in place and all the information is correct.</p> <p>Example:</p> <div> </div> <p style="text-align: center;"><i>Label of DT800</i></p> <p>c) Check the installation of the cabinet base:</p> <ul style="list-style-type: none"> • The screws model is correct, there are no missing bolts or looseness. • The baffles of the cabinet base are well installed without gap <p>Example:</p> <div> </div> <p style="text-align: center;"><i>Cabinet base of DT800</i></p>	

Check item	Check result
<p>2. Internal check</p> <p>a) Check the cabinet door.</p> <ul style="list-style-type: none">• The cabinet door is not deformed, damaged, or dented.• The door opens and closes normally.• The sealing strip is intact, ensuring the waterproofness of the charger. <p>Note: If no problem exists, no picture required.</p> <p>Example:</p>  <p><i>Cabinet door of DT800</i></p>	

Check item	Check result
<p>b) Check the liquid cooling system.</p> <ul style="list-style-type: none"> • Inspect the cabinet for signs of cooling oil leak. • Check whether the liquid level is normal. <p>Example:</p>  <p style="text-align: center;"><i>Liquid cooling system of DT800</i></p>	

Check item	Check result
<p>c) Check the internal integration:</p> <ul style="list-style-type: none"> • No remaining screws or tools left on the bottom of the charger. • The covers are intact and free from deformation. <p>Note: If no problem exists, no picture required</p> <p>Example:</p> <div> </div> <p style="text-align: center;"><i>Internal integration of DT800</i></p>	
<p>3. Cable connection</p> <p>a) Check the inlet:</p> <ul style="list-style-type: none"> • The inlet is sealed without gaps. • The fireproof mortar is hardened and in good condition. <p>Example:</p> <div> </div> <p style="text-align: center;"><i>Position of inlet of DT800</i></p>	

Check item	Check result
------------	--------------

b) Check DC & PE cable connection between DS480 and DT800:

The DC & PE cables are good in the correct cable connection sequence.

Example:

No.	Wiring	Device	Screw	Torque	Socket Wrench
1	PE cable (yellow/green)	DS480	M12 x 40 (A)	55 ± 5 N·m	18 mm
2		DT800	M10 x 25 (B)	23 ± 10% N·m	16 mm
3	DC cable (red/black)	DS480	M12 x 40 (A)	55 ± 5 N·m	18 mm
4		DT800	M10 x 25 (B)	23 ± 10% N·m	16 mm

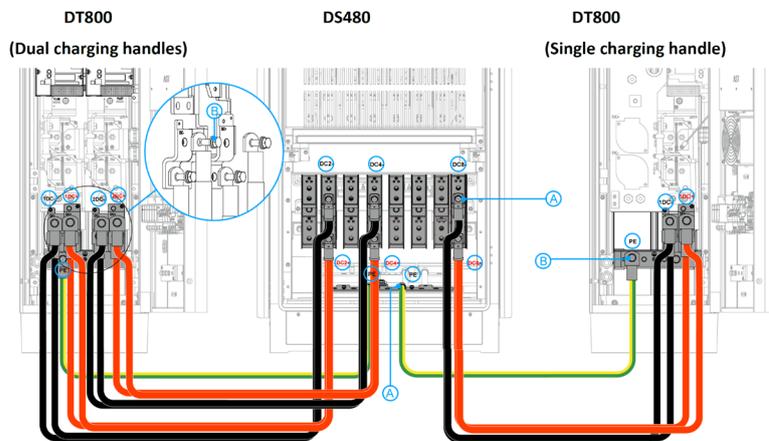


Figure Connecting the PE & DC Cables between DS480 and DT800



NOTICE

- DT800 can only connect to DC2, DC4, DC6, and DC8 ports on DS480
- The quantity of liquid-cooled charging handles for a single DS480 should be ≤4 pcs.

DC & PE cable connection between DS480 and DT800

Note:

Please refer to the Installation Manual to get latest pictures and information.

c) Check AC Auxiliary power cable connection between DS480 and DT800:

The cables are good in the correct connection sequence.

Check item**Check result**

Example:

No.	Device	Notes
1	DS480	<ul style="list-style-type: none"> Loosen the terminal screws on the AC circuit breaker using a Phillips screwdriver. Insert the wires. Tighten the screws to 2.8 ± 0.5 N·m.
2	DT800/DT500	<ul style="list-style-type: none"> Use a Phillips screwdriver to press down the orange spring clamps. While holding them down, insert the wires fully into the terminals. Release the clamps to secure the wires.

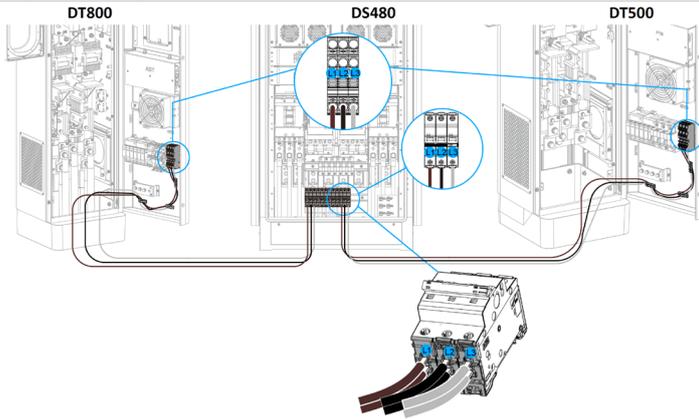


Figure Connecting the AC Auxiliary Power Cable of Liquid-cooled Dispenser

NOTICE

- Each DS480 cabinet has 4 terminal blocks (L1/L2/L3), supporting front and rear wiring for up to 8 dispensers.
- 1st – 4th dispensers: connect them to the front side of the blocks.
- 5th – 8th dispensers: connect them to the rear side of the blocks (e.g., connecting the 5th dispenser to the rear side of first block).

AC wiring connection between DS480 & DT500/DT800

Note:

Please refer to the Installation Manual to get latest pictures and information.

2.5.3.2 DT800 electrical component checklist

DANGER



- The following check items should be strictly operated by professional technicians under protection of safety equipment. Otherwise, your personal safety may be compromised.
- Do not perform any operations on the components that are not mentioned in the check items in **DT800 electrical component checklist**.

Power on the cabinet before you perform the commission procedure in section **DT800 electrical component checklist**. Make sure that you **take pictures of each required check step unless the note says otherwise**.

Check item	Check result
<p>1. Breaker test:</p> <ul style="list-style-type: none"> • After powering on the DT800 dispenser, press the test button on RCD, and the RCD and MCB will switch off automatically. Then recover the MCB and RCD. • Check the indicator window of the SPD, if the indicator window is red, the SPD needs to be changed. <p>Note: If no problem exists, no picture required.</p> <p>Example:</p> <div> </div> <p style="text-align: center;"><i>Breakers of DT800</i></p>	

2.5.4 Joint function commissioning checklist

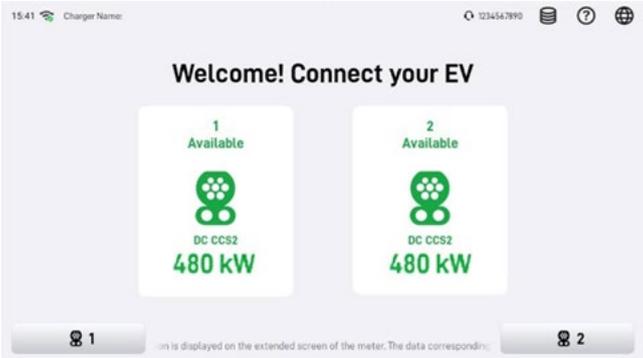
Close all the doors and power on the charger. Make sure that you activate the charger before you perform the commissioning operations in **Joint function commissioning checklist**.

Take pictures of each required check step unless the note says otherwise.



NOTICE

Please note that the charging cable type of UL version are CCS1 and NACS.

Check item	Check result
<p>1. Network connection (Inspect on the dispenser screen)</p> <p>a) Signal test: Connect power cabinet and dispenser to the Internet and check whether the signal strength is above two bars on the screen of the dispenser.</p> <p>Example:</p>  <p style="text-align: center;"><i>DT500 & DT800 CE version</i></p> <p>b) (Optional) APN and OCPP test (Inspect on the dispenser screen):</p> <ul style="list-style-type: none"> • Internet is connected via SIM card • The APN: Username, Password, MCC, MNC (optional) are correct. 	

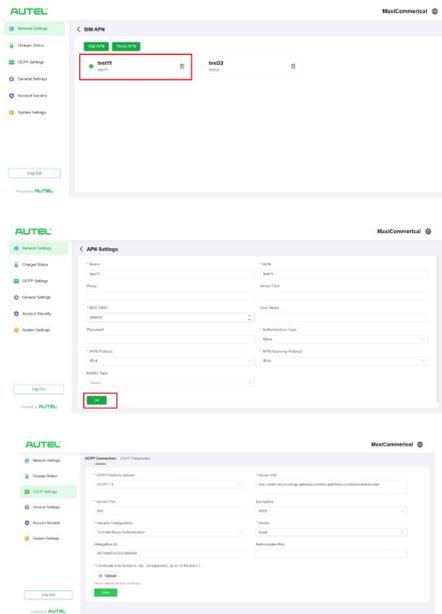
Check item	Check result
------------	--------------

- OCPP connection status: the icon display is normal, no red or yellow alarm on the icon.

Note:

- You need to check the APN and OCPP only when the power cabinet and dispenser uses a SIM card or is connected to a third-party OCPP platform.
- If no platform exists, no picture required.

Example:

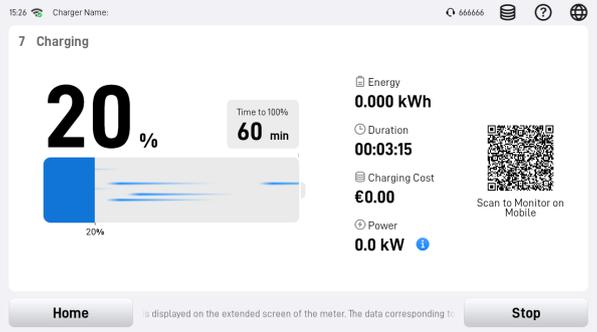
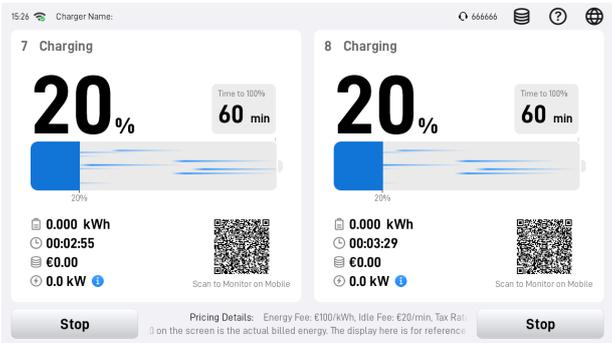


APN & OCPP check on DH480

Icon identification:



You can determine the network connection status from the icon display. If a yellow alarm exists on the icon, OCPP server response delays. If a red alarm exists on the icon, the OCPP server is disconnected.

Check item	Check result
<p>2. Charging session test (Inspect on the dispenser screen)</p> <ul style="list-style-type: none"> • Connector A charge test. • Connector B charge test. • (Optional) Charging test of connectors A and B charging at the same <p>Example:</p>  <p><i>Perform a charge test for one of the connectors</i></p>  <p><i>Conduct a simultaneous charge test for two connectors</i></p>	
<p>3. Payment test (Inspect on the dispenser screen)</p> <ul style="list-style-type: none"> • Test the credit card payment function. • Test the RFID card payment function. • Test the QR code scanning payment function. 	

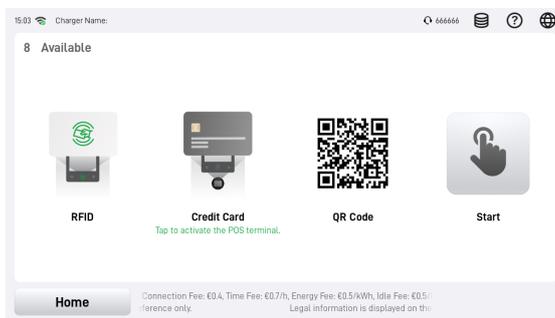
Check item	Check result
------------	--------------

- The payment method will be in the payment history after complete the payment you select.

Note:

- You need test only the payment function that your power cabinet and dispenser supports.*
- If no problem exists, no picture required.*

Example:



Payment method

No.	1	2	3
Connector No.	7	8	8
Transaction ID	2001033593	2001033130	2001032939
Start Method	Scan QR code to charge	Charge via card	Charge via card
Start Time	2025-04-27 17:06:50	2025-04-27 15:53:34	2025-04-27 15:23:00
Stop Time	2025-04-27 17:07:17	2025-04-27 15:54:37	2025-04-27 15:32:37
Energy	0.000 kWh	0.076 kWh	0.000 kWh
Cost	¥0.00	¥94.34	¥0.00

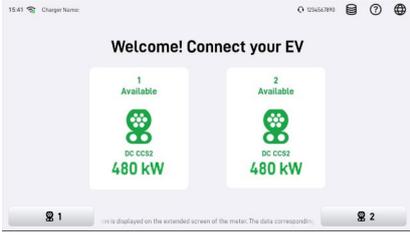
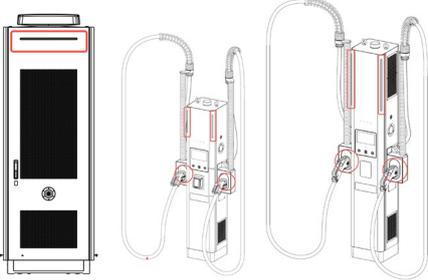
Payment history

4. Idle test (Inspect on the dispenser screen)

- The screen displays normally.
- No alarm is displayed on the screen.

Note:

If no problem exists, no picture required.

Check item	Check result
<p>Example:</p>  <p><i>Screenshot of the idle status</i></p>  <p><i>Check the indicator light when the charger is in idle status</i></p>	
<p>5. (Optional) Emergency stop button test:</p> <ul style="list-style-type: none"> Remove the PC cover and press the emergency stop button to test the function, the dispenser will be suspended. Rotate the emergency button and the dispenser will be resumed. <p>Example:</p>  <p><i>Emergency stop button test</i></p>	

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