POWERCHOICE 250A DISPENSER

User manual

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Contents

1. Preface

This section gives the operational description of the DC outlet column 250A CCS type-2.

1.1 About the document

This document is part of the technical handbook which is an integral part of the DC outlet column. This document gives an operational description of the DC outlet column. Aim of the description is to give a better understanding of the operation to give a familiarization with the operation of the DC outlet column with respect to daily and abnormal operation.

1.2 How to use this manual

- Make sure that you understand the structure and content of the document.
- Respect the safety aspects as written in chapter 2 Safety before you operate, install or do maintenance on the EVSE.
- Do the procedures fully and in the given sequence.

1.3 Target groups

This document is intended to be used by:

- Customers who have purchased the EVSE.
- Personnel who operate the EVSE.

1.4 Markings and labels

1.4.1 Electrical safety label

The electrical safety label is attached at different locations to warn for the risk of electrocution by a high voltage.

Risk of electrical shock

To reduce the possibility of electrical shock, set the power switches in the OFF position and lock-out/tag-out the EVSE before you do any work. Always take the necessary safety measures to allow for a safe work area.

1.4.2 The status label (if applicable)

The status label is attached next to the stop button/status indicator, to explain the function of the stop button/status indicator.

READY — The EVSE is in standby and awaits an EV to connect.

CHARGING
PRESS BUTTON TO STOP

The EVSE charges an EV.
Press the button to abort the charging session.

ERROR — The EVSE has a fault and is not ready to use.

1.5 Notational convention

Throughout the documentation, there are blocks of text printed in a different way than the surrounding text. These blocks of text require the attention of the reader to avoid dangerous situations or to get additional information for an easy understanding.

The blocks of text are shown as:

Symbol	Description
	**Danger:** Asks the attention for a possible hazard with a high risk that will result in death or serious physical injury to persons when not avoided.
	**Warning:** Asks the attention for a possible hazard with an average risk that can result in death or causes serious physical injury to persons when not avoided.
	**Caution:** Asks the attention for a possible hazard with a low risk that can result in minor to moderate physical injury to persons when not avoided.
	**Note:** Asks the attention for an additional, important message, but not hazard related, that can result in damage to equipment or its environment when ignored.

1.5 Contact information

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Office hours: 8.00 am - 6.00 pm (CET) Monday - Friday (excluding holidays)

2. Safety

Follow the next safety instructions:

- Obey this manual.
- Obey all relevant local laws and regulations.
- Do not use the charging column if it is damaged.
- Do not use the charging column if any cable is damaged.
- Do not modify the charging column without the permission of Heliox. Any change or modification made by the owner without the approval of Heliox can void the warranty policy.
- Only use the charging column as intended.
- Only use the charging column within the specified technical data.
- The load capacity of the grid must comply with the technical data of the EVSE.
- Do not touch the inner parts of the outlet column during, or after 5 mins after operation.
- Be safe and compliant. Wear personal protective equipment as required by the local laws.
- Do not operate the charging column without the protective devices installed.
- Do not open the door of the charging column during operation.

Danger:
Do not alter the ac power supply. Only allow a qualified electrician to do the electrical work. Improper connection increases the risk of electric shock.

2.1 Intended use

The DC outlet column is designed to charge an electric vehicle according the standard for charging electric vehicles (EV) in a safe area in combination with an EVSE. The DC outlet column is intended for use, during installation, commissioning and maintenance tasks, by authorized persons.
The DC outlet column is intended for use, during a EV battery charge session, by well-trained persons.

2.2 Unintended use

Warning:
Other use than the intended use can cause loss of life, injury and damage to the product, the connected systems and the environment.

This model of the DC outlet column is not designed and intended for use in a hazardous area or in life-saving applications.

3. Operation

This chapter gives a familiarization with the operation of the DC outlet column with respect to daily and abnormal operation.
The operation of the DC outlet column is always in relation with a base station and an EV. The EV acts as a client (asking party) and the EVSE acts as a host (supply party). The EV batteries only get charged when the communication is completed and uninterrupted during the charge session.

3.1 Status indicator (if applicable)

The status of the charging process is indicated by the status indicator which is part of the stop button.
The status is indicated as:

Status	Duration [s]	Description
None		DC outlet column is in initialization phase
Green flashes	60	The DC outlet column and/or Base Station is in the startup phase
Green constant	Continuous	DC outlet column available
Blue flashes	20	Starting or stopping charge session
Blue constant	Continuous	High voltage mode (charging)
Red flashes	Continuous	The DC outlet column has been made unavailable by the OCPP back-office, or the base station is not available
Red constant	Continuous	Error or malfunction state

3.2 Start the charge session

Procedure

1. Stop the electrical vehicle at the correct position.

2. Activate the hand brake.

3. Make sure the power of the EVSE is switched on. The EVSE is in standby.
   The status indicator shows green continuously.

4. Connect the EVSE to the EV by the means of EV coupler used.
   Follow the charge instructions of the EV.

5. After the communication is established, the charge session will start automatically.
   The status indicator shows blue continuously.

3.3 Stop the charge session

3.3.1 Charging session stops automatically

Procedure

1. When the charging session is completed, the status indicator goes to blue, blinking.

2. When ready for a safe disconnection, the status indicator goes to green continuously.

3. Disconnect the EVSE from the EV.

3.3.2 Charging session is stopped by the operator

Follow the instructions of the EV, then step 2 and 3 of 3.2.1

3.4 Abnormal operation

3.4.1 During the charging session, the communication gets lost.

When the communication gets lost during the charge session, the EVSE starts the stop sequence and initiates an emergency stop situation and the status indicator shows red continuously.

3.5 Emergency stop (if applicable)

Warning:
Only use the emergency button in an emergency situation.

When you push the emergency stop button, the charge session is immediately aborted. The EVSE starts the stop sequence and initiates an emergency stop situation and the status indicator shows red continuously.

Turn the emergency stop button clock wise to release (button will automatically return to the original position). Pulling is not necessary as the button does spring back automatically.

After releasing the emergency stop the EVSE gets a signal that the emergency situation is resolved, the reset sequence is started automatically. When the reset sequence is successfully finishes, the status indicator lights up continuous.

4. Troubleshooting

If the charger is in an error state (red indicator), the user can try to do a soft reset:

1. Press the emergency button.

2. Release the emergency button.
   The system will reinitialize and restart.
   If the fault is resolved and not service critical, the system will become available again.

If the fault is not resolved, start the issue resolution process by contacting the first line of support. If necessary they will be directed to higher levels of support in accordance with the complexity of the issue.

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ISO14001
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Management System

IATF16949
Quality
Management System

EN-1021

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