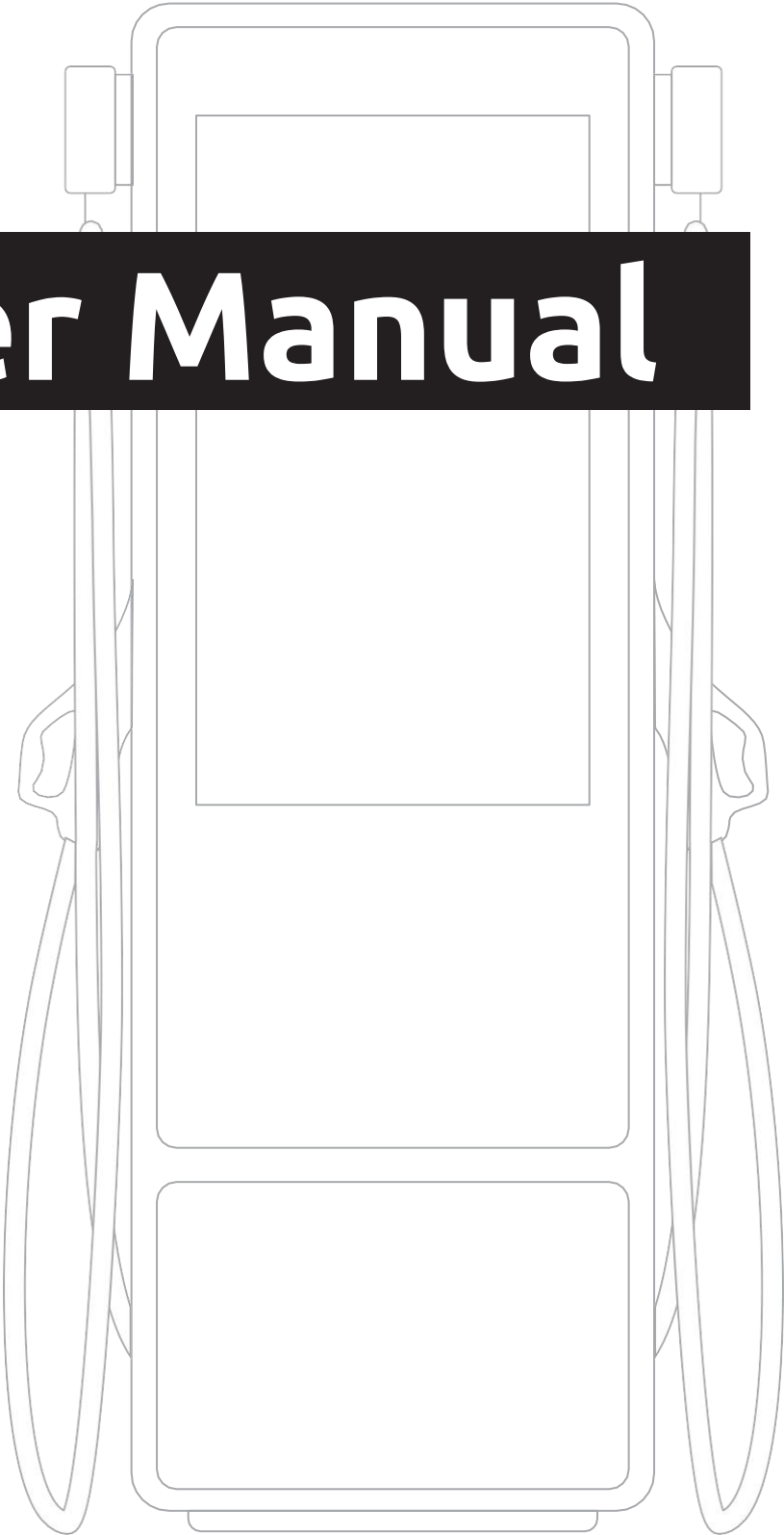


A faint, light gray line drawing of a vehicle, likely a truck or van, is centered in the background. It shows the front grille, headlights, and the main body of the vehicle.

User Manual

MANUFACTURER

Address

Av. Marechal Gomes da Costa, 50
4150-354 Porto, Portugal

Phone

+351 221 150 960

E-mail

info@i-charging.pt

Website

www.i-charging.pt

CUSTOMER CARE

E-mail

customer.care@i-charging.pt



blueberry

powered by **i-charging**



INDEX

1.	ABOUT THE MANUAL	6
2.	IMPORTANT SAFETY INSTRUCTIONS	7
2.1.	Safety Notices	8
3.	USER GUIDE	9
3.1.	Human Machine Interface	9
3.1.1.	Charging Station Status	10
3.1.2.	Authentication Methods	11
3.1.3.	Start Charging	12
3.1.4.	Charging Settings	13
3.2.	Cable Management	14
3.3.	Charging Sequences	15
3.3.1.	Start Charging Sequence	15
3.3.2.	Stop Charging Sequence	19



1. ABOUT THE MANUAL

The purpose of this manual is to provide the operation instructions for blueberry product line.

Please make sure that this manual is carefully read and ensure that all safety notices given are followed.

All technical details, specifications and design characteristics of the product may change without prior notice. The content of this document was carefully checked, however, in case of any inaccuracy, the user is asked to report it to i-charging. This manual should be saved for future reference.



2. IMPORTANT SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS

This manual must be read carefully before the installation and operation of the blueberry charging station. Incorrect operation because of non-compliance with the instructions provided by this manual may lead to severe injuries or damages.

The working steps described must only be carried out by qualified personnel who, based on their knowledge and experience, can assess, and carry out all steps described in this manual and recognize potential hazards. The blueberry charging station shall be installed, connected, and approved for operation according to local codes and regulations. Under no circumstances the compliance with the information in this manual relieve the user to comply with all applicable local codes and safety standards.

FIRE PROTECTION

To avoid fire, the following rules must be observed:

- The user must under no circumstances make any changes to the blueberry or use it in a manner that was not designed for. Any disregard of this instruction represents a safety risk and will void the warranty with immediate effect.
- It is forbidden to use blueberry when is technically inoperative or which does not correspond to its intended use or to the conditions specified by the manufacturer or which are not subject to periodic checks.

Damages that may occur resulting from custom installations, that are not described in this document are not i-charging responsibility.

BEFORE CHARGING

Before operating the blueberry charging station, make sure that the surrounding environment is free from hazards, that the blueberry PLUS does not have any error message on the display and that the charging cable(s) are not damaged.

SAFE CHARGING SESSION

Perform the charging process as described in this manual. Once the process is completed, the plug must be placed in the correspondent holder.

IN CASE OF FIRE

In case of an emergency, the main switch of the switchboard power supply shall be turned off. In case of fire, the main switch of the switchboard power supply shall also be turned off and the source of the flame must be eliminated with a class C fire extinguisher. All components of blueberry PLUS charging station are self-extinguishable which means that in case of fire, once the source of the flame has been removed, it will cease burning.

2.1. Safety Notices

Special warnings and safety measures may appear throughout this document or on the equipment to warn of potential hazards or to call attention.

The symbols carry the following meanings:



RISK OF ELECTRIC SHOCK!

Procedures marked with this symbol must not be carried out under any circumstances. Actions contrary to these safety notices may lead to severe injury and death.



WARNING!

Procedures marked with this symbol should be carried out with special care. Hazards that may lead to personal injuries.



CAUTION!

Procedures marked with this symbol must be carried out with special care. Hazards that may lead to damage in the equipment itself or to other electric devices.



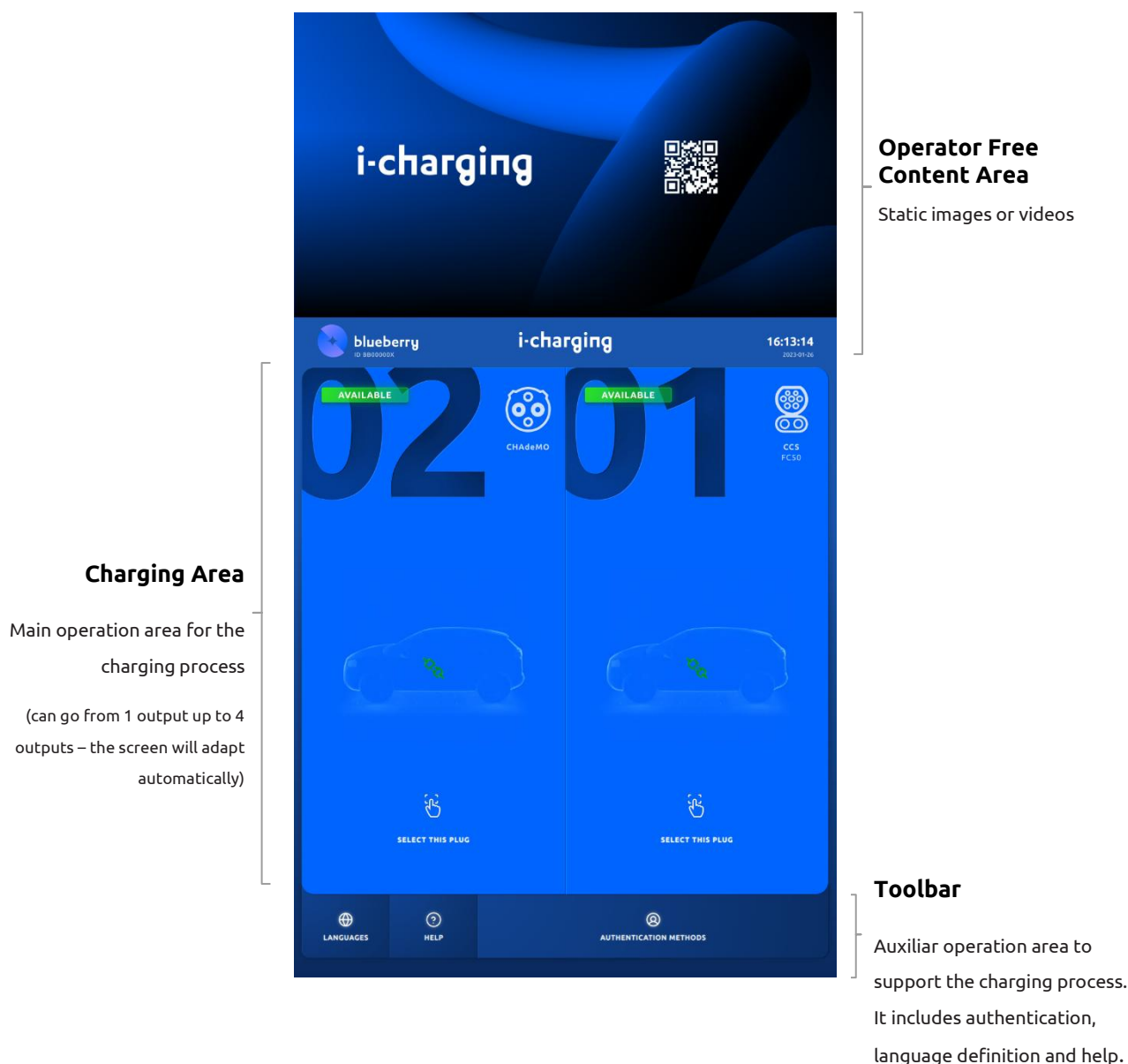
PLEASE NOTE!

Sections marked with this symbol are intended to draw attention to important information that is necessary for the reliable operation of the blueberry charging station.

3. USER GUIDE

3.1. Human Machine Interface

The blueberry charging station is designed to be easy to operate and to be used by everyone. It has a full HD touchscreen display with 32" which is partitioned in different areas as shown see in the figure below.



After an inactivity timeout, the display will change to a screensaver and a full screen for advertising will appear.



PLEASE NOTE!

The operator free content area is defined by the charging owner, both on full screen or in operation modes.

i-charging is not responsible for the content defined by the station owner and accepts no responsibility or liability for the accuracy or the completeness of the information and materials, as well as its content infringing any law or patent or copyright or be considered inappropriate or offensive.

3.1.1. Charging Station Status

Blueberry charging station has two ways of showing the status of each output:

1. A long-range indication through the LEDs above each cradle
2. Through the operation area on the display

Each LED's color indicates a different charging station status:

- Green: Available
- Blue: In use
- Red: Unavailable



This image is only a representation.

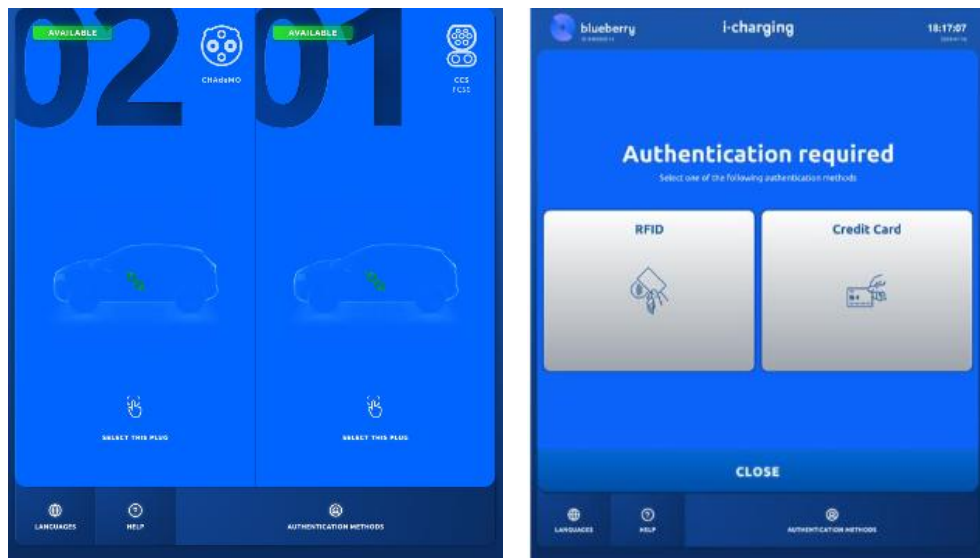
3.1.2. Authentication Methods

The blueberry allows two types of authentication: RFID Card, Credit Card or Autocharge. The details of each type of authentication are presented below. Depending on the Charge Point Operator other types of authentication can be supported, for example: Plug&Charge; CPO APP; bank card; free access with no authentication.

RFID Card: The user only must hold the RFID card over the card reader to be authenticated.

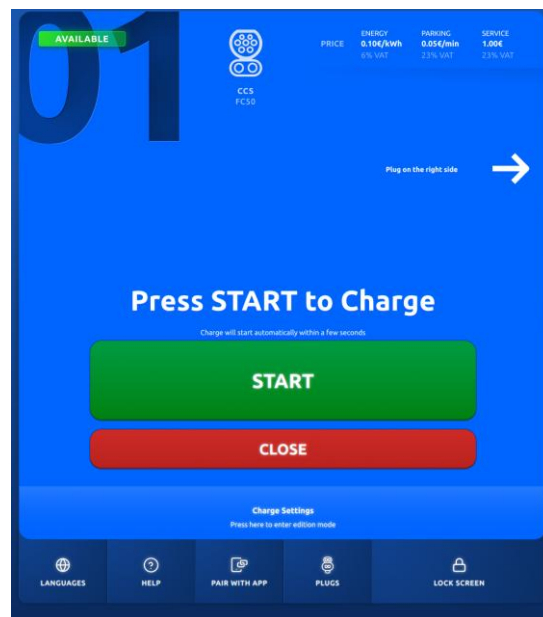
Payment method: The user must choose the plug he will use to charge the electric vehicle and then he will choose an authentication method. If credit card is used, to finish the charging session, the user must select his plug and swipe the same credit card again, to unlock the charging session.

Autocharge: To authenticate, the user simply plugs the cable into the vehicle. Authentication is performed automatically using the vehicle's MAC address.



3.1.3. Start Charging

After successfully authenticated, the user has the possibility to start charge or choose the settings for the charging session that he will initiate.



3.1.4. Charging Settings

Before starting to charge, the user has the possibility to choose the settings for the charging session that he will initiate. For example, the maximum amount to spend in that charging session, the maximum state of charge, the maximum energy or the maximum charging time. The payment method used for the charging session will be shown in the charging settings.

01

AVAILABLE



CCS
FC50

PRICE

ENERGY
0.10€/kWh
6% VAT

PARKING
0.05€/min
23% VAT

SERVICE
1.00€
23% VAT

Plug on the right side →

MAXIMUM AMOUNT - , - - € Not defined	PAYMENT METHOD Operator billing account		INVOICE VAT NUMBER consumer Not defined
MAXIMUM STATE OF CHARGE - % Not defined	MAXIMUM ENERGY - kWh Not defined	MAXIMUM POWER - kW Not defined Max. Allowed 50 kW	MAXIMUM CHARGING TIME - - : - - : - - Not defined

CLOSE

START

LANGUAGES

HELP

PAIR WITH APP

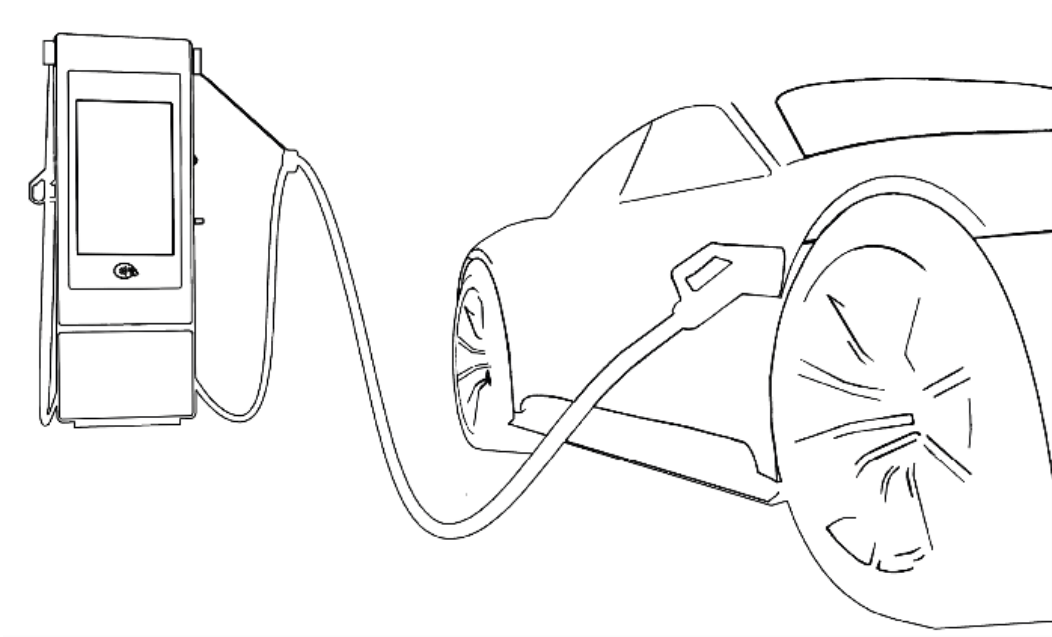
PLUGS

LOCK SCREEN

3.2. Cable Management

The blueberry has also a cable management system that that can reach up to 4.7m and allows an easy handling of the cable. When needed, the user just has to grab the cable, and the system will give the cable needed without any effort.

After charging, when the user puts the connector on the holder, the system will retract the cable as easy as when it was extended.



3.3. Charging Sequences

To start and stop a charging session please follow the operations sequences described in this chapter. The brief description of the meaning of each symbol is presented below.



Tap the display to start or to select



Tap the card



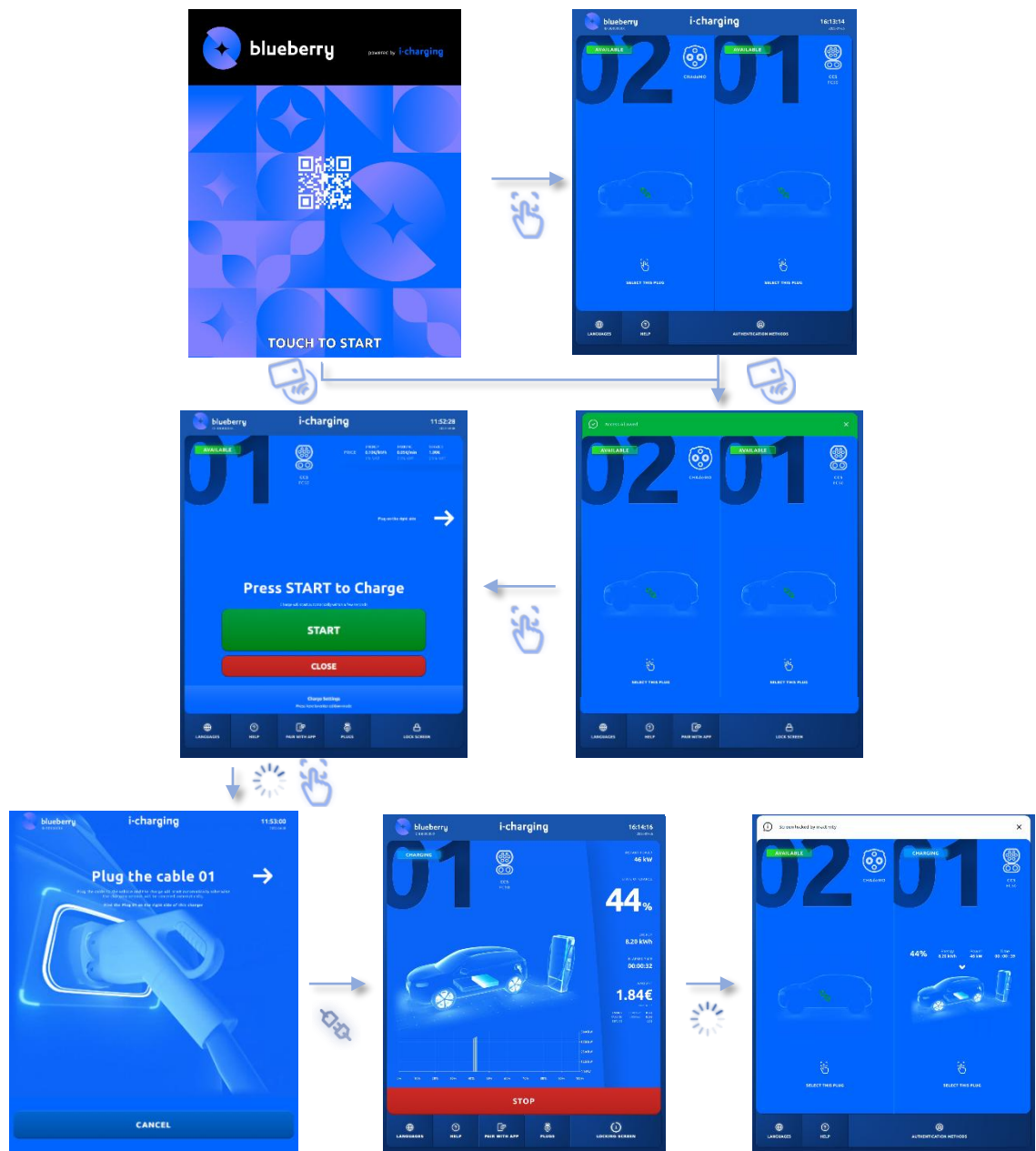
Wait a few seconds



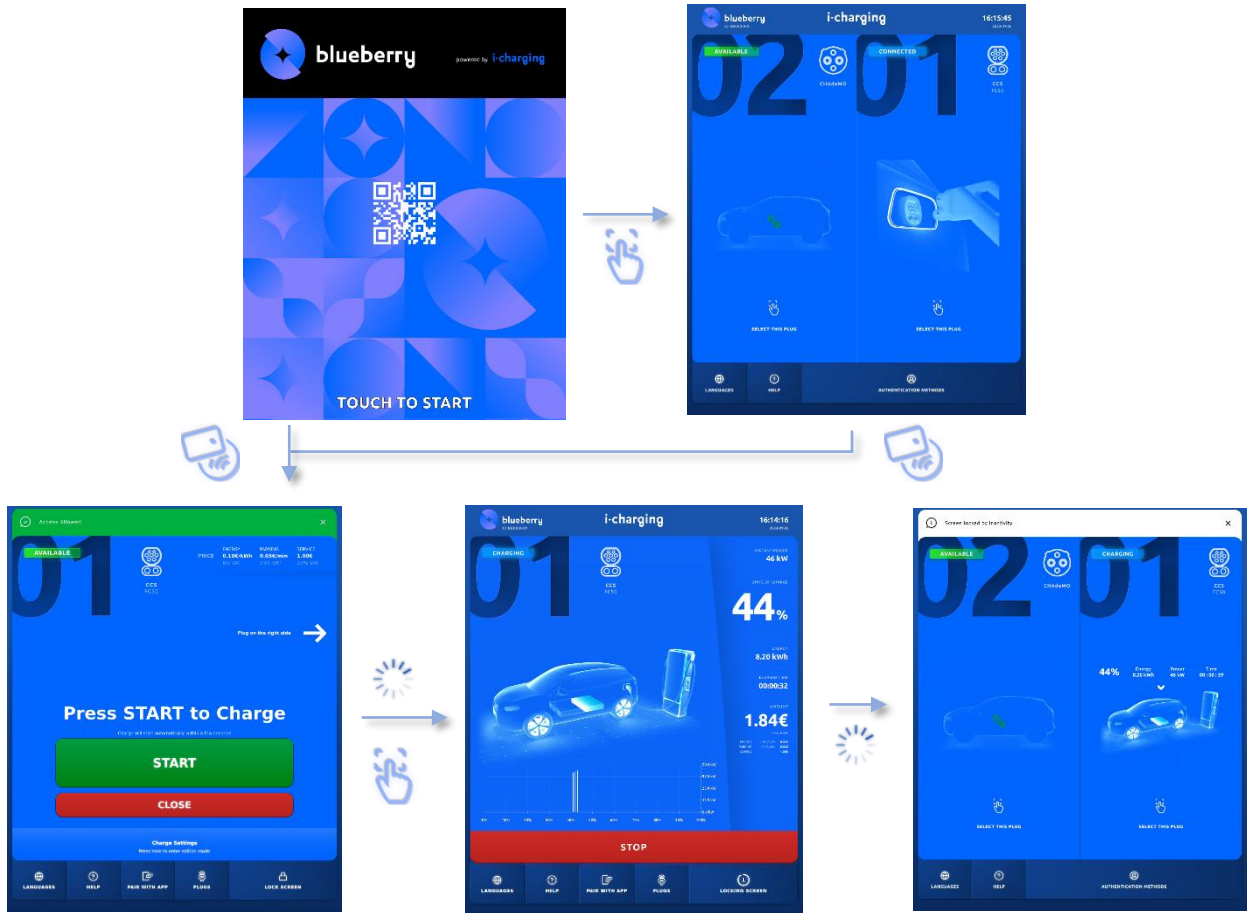
Plug the connector

3.3.1. Start Charging Sequence

3.3.1.1. Charging Sequence when the plug is not yet connected



3.3.1.2. Charging Sequence when the plug is already connected



3.3.1.3. Charging Sequence with Credit Card



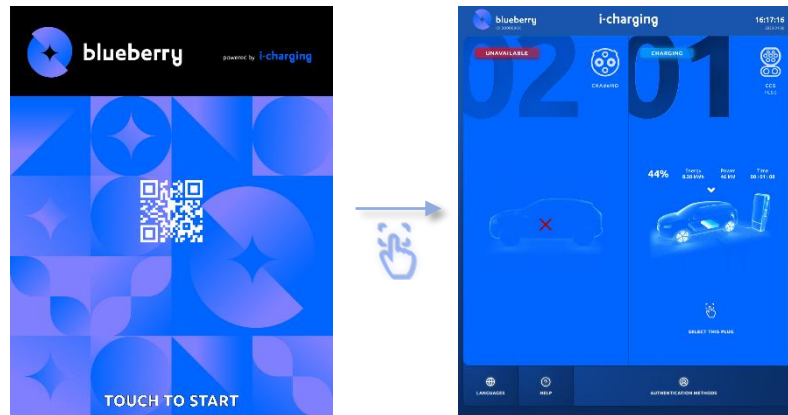
In the case of a credit card charging session, the rate used will be displayed to the end user, as shown in the image below.

PRICE	ENERGY	PARKING	SERVICE
	0.10€/kWh	-€	-€
	6% VAT	23% VAT	23% VAT



PLEASE NOTE!

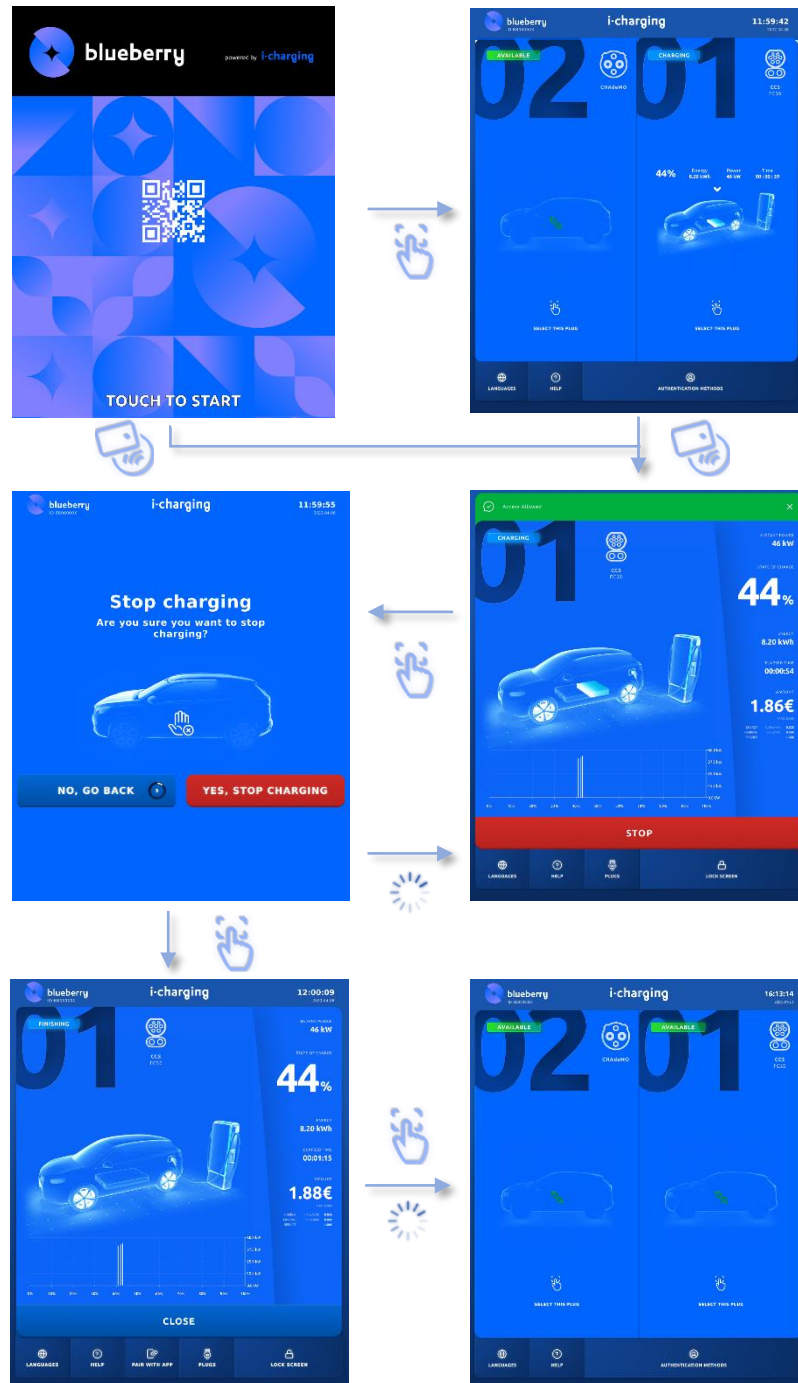
For blueberry standalone (50 kW), when one output is already in use, if a second driver goes to the charging station, he will see the second plug unavailable. Despite that, if the sequential is enable, the user can authenticate himself, connect the plug and then the charging session will start once the other is finished.



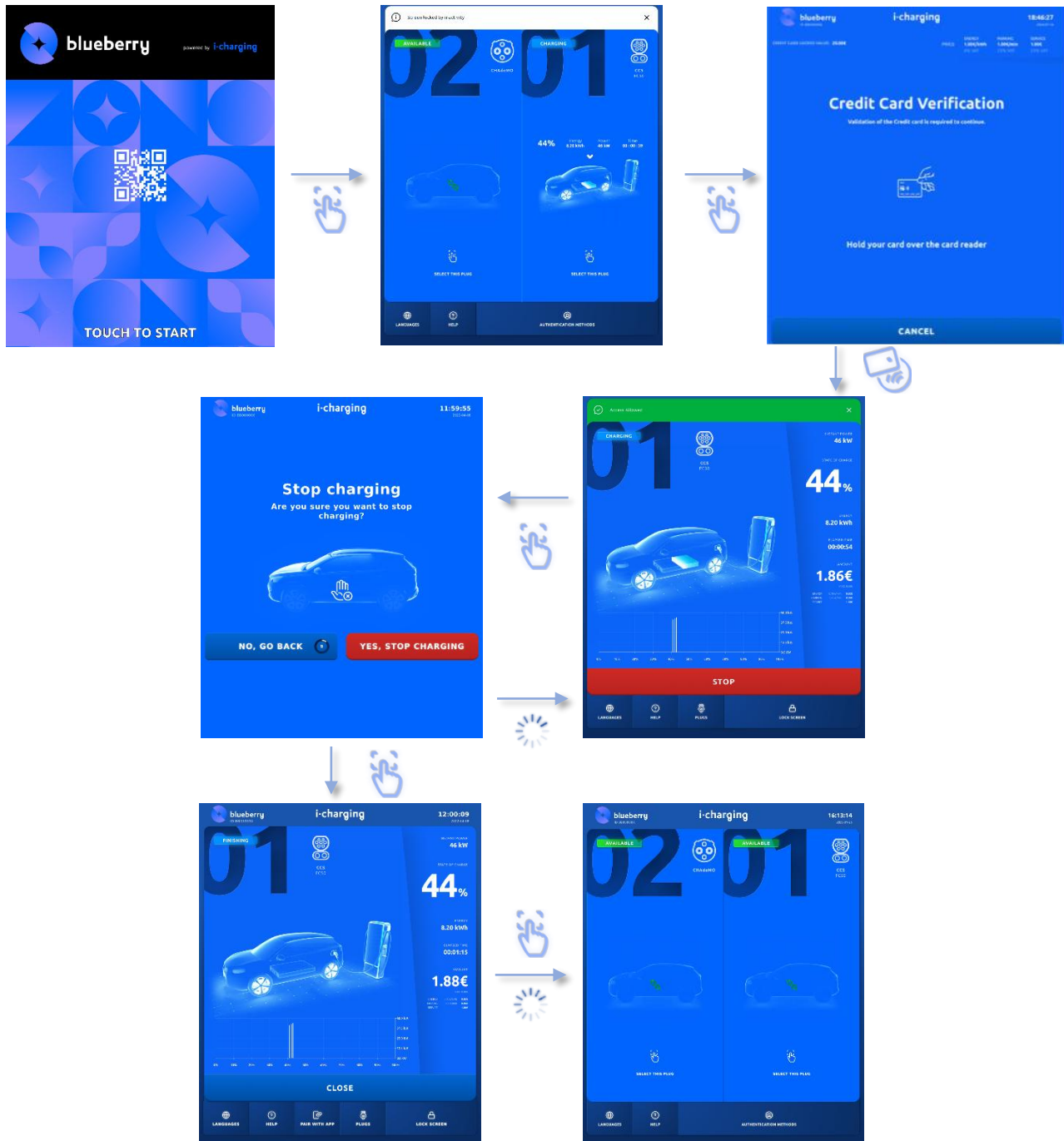
3.3.2. Stop Charging Sequence

3.3.2.1. Stop Charging Sequence with RFID Card

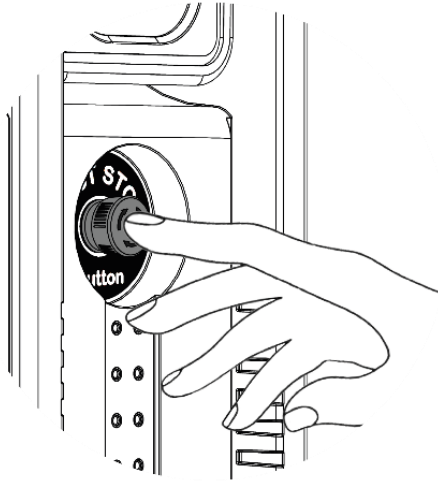
To stop the charging session, the user must first authenticate himself, as showed in the operation sequence below.



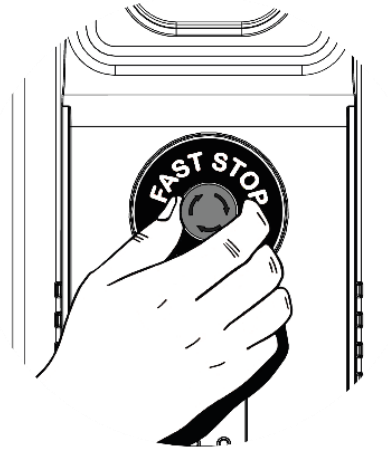
3.3.2.2. Stop Charging Sequence with Credit Card



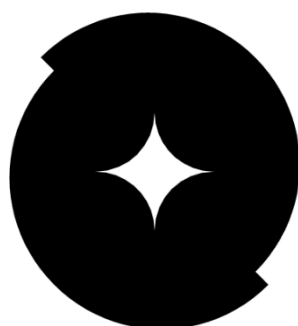
In the event of a problem with the charging process, it is possible to press the fast stop button placed on each side of the blueberry charging station. Once pressed, the charging session will end, and it will only be possible to initiate session again when the button is released. That information will also be displayed on the HMI.



1 – Pressing the fast stop button



2 – Releasing the fast stop button



blueberry
powered by **i-charging**

Copyright © 2024 i-charging mobilidade elétrica, s.a.

All rights reserved.

This document is protected by copyright laws and its content is proprietary of i-charging. It may not be reproduced, republished, distributed, or otherwise exploited in any manner without written permission of i-charging. The information in this document may be subject to change without notice.