CONNECTING ENERGY
SINCE 1952

Cabur EASY EV Smart Chargers

Installation and operating manual

Contents

Markings

CE

UKCA

Point of contact under Directive 2014/35/EU:
Cabur S.r.L. – Località Isola Grande 45 17041 Altare SV Italy

www.cabur.it

1 Revision history

Version	Release date	Authors	Notes
0.1	07/07/2021	Cabur Technical Office	Fistr draft derived from the EV PLUS manual
1.0	13/07/2021	Cabur Technical Office	New name: Cabur_EV_EASY_Installation_Instruction_Manual
1.1	19/07/2021	Cabur Technical Office	Updated cover Chapters 2,3,4 revised
1.2	20/11/2021	Cabur Technical Office	SSID connection details updated
1.3	28/01/2022	Cabur Technical Office	The procedure to stop the charging process by the web APP has been removed

2 Introduction

This manual introduces the Cabur EV EASY Charging Line products for EV battery charging and provides all the necessary information about their installation process and their usage.

Important: Please read carefully this manual before installing and using the charger.

Important: All the installation operations must be performed by qualified personnel.

2.1 General information

2.1.1 About this manual

- The present manual must be available to all the persons who take care of the charger installation and usage
- The installation and commissioning of the charger must be performed by authorized and qualified personnel only in compliance to all the safety related regulations and laws
- The charger producer is not responsible for any damage due to an incorrect or missing application of the rules contained in the present manual
- Due to the continuous improvement process, the charger producer has the right to apply changes to the product whenever needed
- The reproduction of this manual is not allowed without the written authorization by Cabur s.r.l.

2.1.2 About safety

The product conforms with the state of the art and the applicable safety and health regulations.

Nevertheless, the following risks can be caused by incorrect operations or misuse:

- Hazards to life and limb of the user or third parties
- Perils to the product and other material assets of the operator
- Risks for the efficient use of the product

It is mandatory to apply the following rules:

- The input voltage must be disconnected before any maintenance operation on the charger.
- Please be sure the input voltage is not present by means of dedicated measures with appropriate tools
- Before switching on the charger, the earth cable connection must be checked
- The input cable, the plugs and all the necessary accessories for the installation must be carefully selected in compliancy with the current regulations and laws (see paragraph 6.5)
- An MGT protection device must be installed to protect the charger input (see paragraph 6.3)
- No cable adapter or patch or cord set extension is allowed for the charger cord set

- The EV must be blocked before connecting for charging
- It is prohibited to remove, modify, bridge or bypass any protective, safety or monitoring equipment and, in general, it is prohibited to apply modifications to the charger
- It is prohibited to reconfigure or modify the product
- The product may only be operated in perfect conditions

2.1.3 About maintenance

- Do not open the charger
- Do not touch the electronic parts/boards
- Do not install or use the charger if it is damaged
- The charger must be repaired by authorized personnel only
- Use a soft cloth with neutral detergent liquid, suitable for plastic surfaces, to clean the charger

3 Warranty and liability

The warranty period of the charging station is specified by the official Cabur's selling conditions.

This operating manual serves to ensure fault-free and safe use of the product; compliance with its content is a prerequisite for the fulfilment of any warranty claims.

Excluded from the warranty are such defects that result from any arrangement and assembly not effected by the producer, insufficient equipment, failure to observe the installation requirements and conditions of use, excessive load on the components beyond the capacities specified by the seller, negligent or incorrect handling and use of unsuitable operating materials.

This also applies to defects that are attributable to material provided by the user.

In particular, claims for damages expire in the event of:

- Inappropriate use
- Modifications or additions
- Repairs carried out improperly
- Disasters, foreign body impact and force majeure

The producer is also not liable for damage caused by the actions of third parties, atmospheric discharges, overvoltage and events related to chemical influences.

The warranty does not apply to the replacement of parts that are subject to natural wear and tear.

4 Limits of use

This charger is an electrical equipment designed for charging battery electric vehicles (BEV).

The plug and the socket compliant to EN 62196 (alternating current charging, MODE 3) are used for charging BEVs.

The charger is suitable for indoor and outdoor usage. The product is built according to the state of the art and the generally accepted safety regulations. Nevertheless, during its use hazards to life and limb of the operator or third parties may occur or the product and other material assets may be negatively affected. Intended use includes observing the operating manual and compliance with the maintenance requirements.

Only use the product if it is in technically perfect condition. Use the product as intended and in a safe way.

In case of malfunctions or damages that could impact safety please contact a qualified technician and inform the producer.

 The charging station must be mounted on a wall or on its own stand and installed in a stable way. It is not allowed to operate the charging station in a loose state (not steadily mounted) because this would not comply with the ratings.

 Unmounting, tampering with or deactivating the safety devices is forbidden.

 No technical changes may be made to the product without consulting the manufacturer Furthermore, liability and warranty claims are excluded in case of non-compliance with the intended use.

 The product may only be operated under the operating conditions specified in the documentation

 This documentation is mandatorily to be read by qualified personnel for installation and initial operation, as well as by the user for the Installation and Instruction Manual of the product.

 For what concerns users, unattended operation of the product is only allowed if they

- have read and understood this Installation and Instruction Manual
- have read and understood all the safety instructions

 For what concerns the qualified personnel (electrical engineering/technician specialist), only qualified personnel are allowed to perform installation, initial operation, inspection and configuration work. The qualified personnel must have read and understood this manual.

5 Technical data

Product Information		
		
Model	**EVEASY22C**	**EVEASY22S**
Power	3.5-22kW	3.5-22kW
Charging Mode	MODE 3 CASE C (with cable)	MODE 3 CASE B (with socket)
Connector standard	Type 2	--
Socket	--	Type 2
Dimensions (W x H x D)	355x650x150 mm	355x650x150 mm
Weight	12.48kg	9.48kg
Enclosure Material	PC+ASA (UL94-V0)	PC+ASA (UL94-V0)
Cooling system	Integrated fan	Integrated fan
Mounting	Wall / Stand	Wall / Stand
Electrical Data		
Mains Voltage	400V±15% (three phase) 230 V±15% (single phase)	400V±15% (three phase) 230 V±15% (single phase)
Mains Frequency	50/60Hz self-adjustable	50/60Hz self-adjustable
Network Configuration	TN/TT/IT(3P+N+PE or 3P+PE) (3-phase) TN/TT/IT(1P+N+PE or 2P+PE) (1-phase)	TN/TT/IT(3P+N+PE or 3P+PE) (3-phase) TN/TT/IT(1P+N+PE or 2P+PE)(1-phase)
Efficiency	＞99%	＞99%
Earth Leakage Protection	DC Leak (6ma)	DC Leak (6ma)

Start Charging	Automatic Plug & Charge	Automatic Plug & Charge
Indicators	LED Light belt (red, blue, green)	LED Light belt (red, blue, green)
Connectivity	Wifi (AP) Hotspot	Wifi (AP) Hotspot
Background Functions	WIFI system upgrade	WIFI system upgrade
Reports	Charge reports Fault reports	Charge reports Fault reports
Protection Function	Overcurrent protection Overvoltage protection Undervoltage protection Relay over temperature protection; Socket or plug over temperature protection; CP fault protection; Relay adhesion protection;	Overcurrent protection Overvoltage protection Undervoltage protection Relay over temperature protection; Socket or plug over temperature protection; CP fault protection; Relay adhesion protection;
IP Degree	IP54	IP54
Ambient Temperature	-25°C to +50°C	-25°C to +50°C
Operating Humidity	≤95%RH	≤95%RH
Certificates		
Standards	IEC 61851-1: 2017 (RED WiFi 2.4GHz----RF: EN 300 328 RF-EMC: EN 301 489-1&-17 Health (MPE): EN 62311) (RED RFID 13.56MHz----RF: EN 300 330 RF-EMC: EN 301 489-1&-3 Health (MPE): EN 62311)	
Certificates	CB from DEKRA/CE from DEKRA	


The integrated protections are not automatically or remotely reclosed as prescribed by the IEC 61851-1.

6 Installation

The following paragraphs describe the charger installation process.


The installation must be performed by qualified personnel only.

6.1 Installation conditions / Environmental requirements

The charger can be used outdoors. Pay attention to the operating environment to meet the equipment operation, otherwise it will affect the service life of the equipment. The following

conditions are mandatory for a correct installation of the device (see also paragraph 4 “Technical data”):

- Operation temperature must be within the range -25 ℃ up to 50 ℃
- Operation humidity must be ≤ 95%
- Avoid installation places affected by strong vibrations and mechanical shocks
- Keep away the charger from explosives or dangerous materials, conductive media and harmful gases, all of them can damage the electrical insulation
- The use environment should be kept clean, no mold is allowed, and it should be kept away from moisture, dust, flammable gas, flammable liquid, etc., away from heat sources and corrosive environments
- The altitude of the installation site must be ≤ 2000 m.

6.2 Installation accessories

The following accessories are needed for the charger installation process:

- This manual
- The certificate of conformity
- The expansion screws (4 pieces, provided with the charger), to fix the charger to the wall
- The mounting template (provided with the charger), to identify the correct position of the mounting holes on the wall
- The anti-theft stainless screw (provided with the charger)

6.3 Installation of the protection against short circuit

The charger itself has an overcurrent protection integrated function. Nevertheless, a short-circuit protection device shall be installed at the upper level, for example in the control panel, for short-circuit protection purpose.
If the short-circuit protection device is not installed the charger cannot be used.

The rated current of the supply circuit short-circuit protection device must be in line with the current used by the charger.
If the charger is used at full load, the rated current should be 40A, otherwise the charger will not work properly.

 It is mandatory to install a circuit breaker with C or B curve, 40A, before the charger input. If there are uncertainties about how to choose the appropriate short-circuit protection device, please contact the manufacturer.

6.4 Installation of the protection against residual current

In compliancy with the IEC 61851-1 standard, the charger contains an appropriate circuit that ensures the disconnection of the supply in case of DC fault current above 6mA (DC Leak protection circuit).

No external installation of any type B RCD is prescribed.

 **An external type A RCD, with supply disconnection in case of DC fault current above 30mA shall be installed in the upstream side.**

 The protection device selection and installation must be performed by qualified personnel only.

6.5 Overvoltage protection

The charger is compliant to the Overvoltage Cayegory III

6.6 Installation cables

The cable for connecting the mains supply to the charger must have a section in the following range 6-10 mm2.

 The cable selection must be done by the qualified personnel involved in the installation process, taking into account the national regulations for the safety and the state of the art of the electrical installations.

6.7 Supported power supply systems

Both single-phase and three-phase chargers support the following power supply systems.

- TN-S
- TN-C
- TN-C-S
- TT
- IT (only single-phase products are supported)

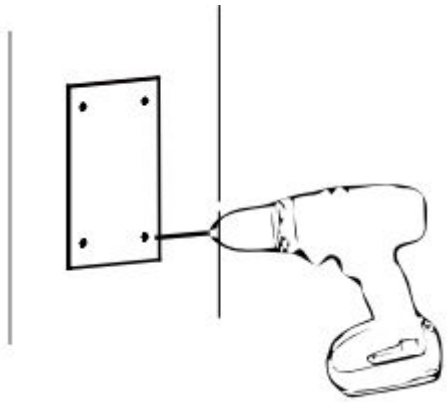
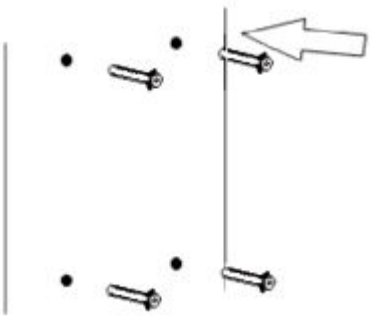
For single-phase charger, in a power supply system with a neutral line, the voltage between the phase line and the neutral line cannot be higher than the rated voltage requirement (240VAC).

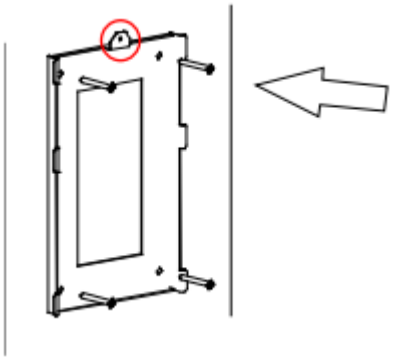
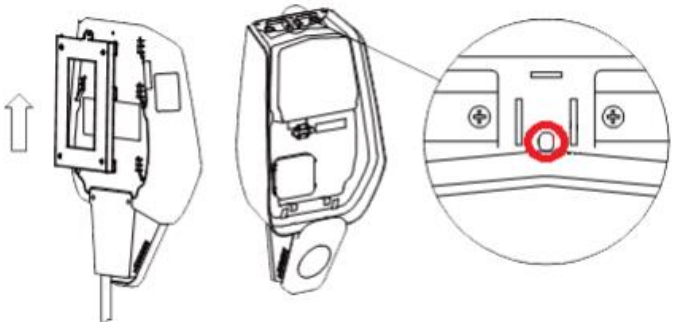
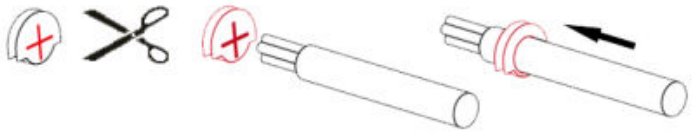
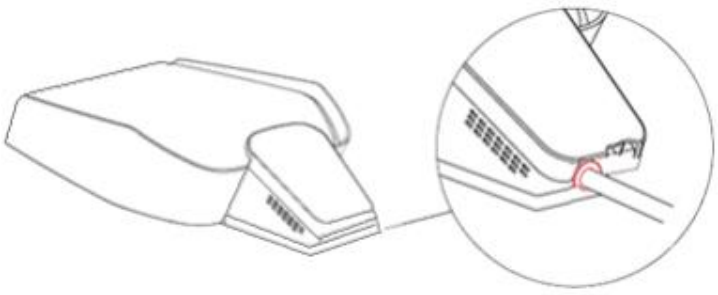
In a power supply system without a neutral line, the voltage between the phase line and the phase line cannot be higher than the constant voltage requirement (240VAC).

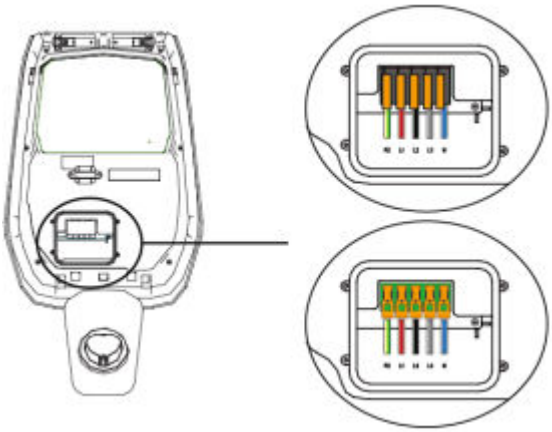
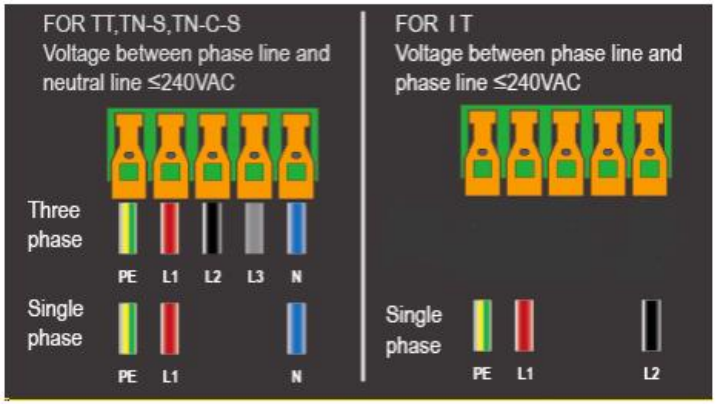
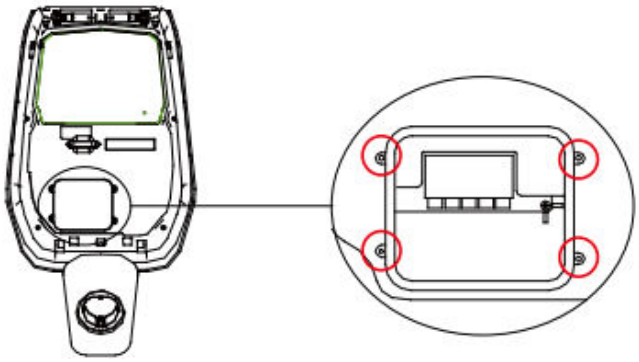
For three-phase charger, in a power supply system with a neutral line, the voltage between the phase line and the neutral line cannot be higher than the rated voltage requirement (240VAC).

6.8 Installation steps

In the following all the steps to perform for a correct installation of the wallbox:

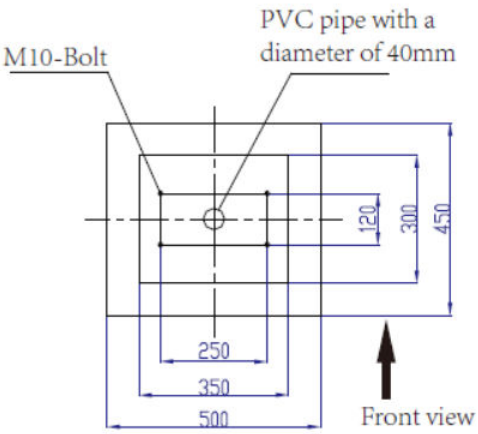
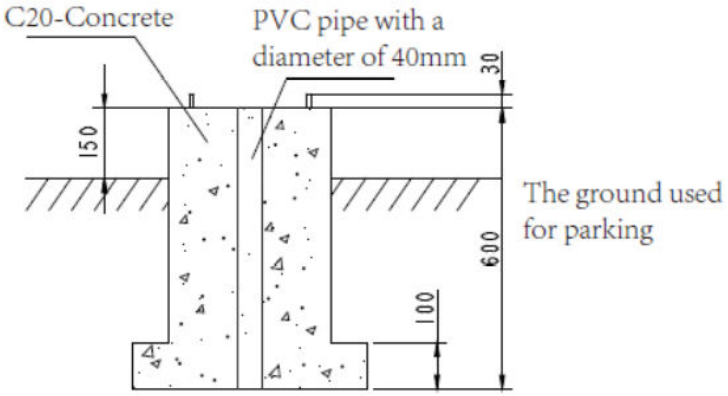
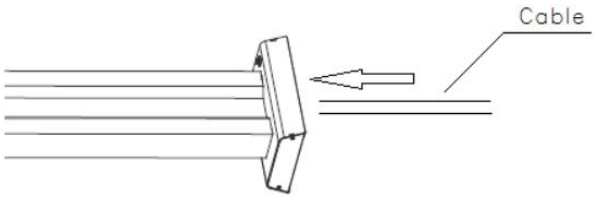
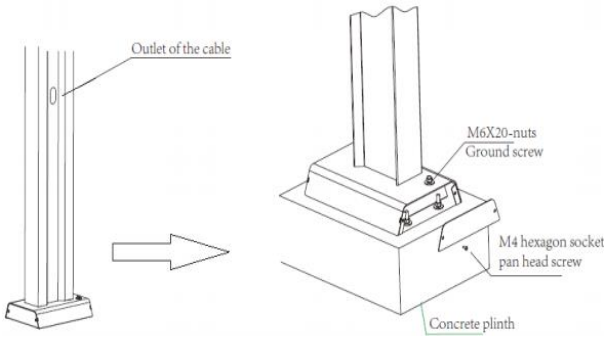
Step No.	Description	Picture
1	Open the package which contains the charger and its accessories. Package content: ▪ the charger ▪ four expansion screws ▪ a mounting template ▪ a mounting metal bracket (already attached to the charger rear side) ▪ one rubber gland for the input cable	
2	Lean the mounting template against the wall. The height from the centre of the template to the ground should be determined according to your ideal height (1500mm is recommended). Check the template is fully horizontally aligned. Mark the expansion screw holes positions on the wall. Create the screw holes with a tool.	
3	Insert the four expansion bolts into the four holes and just push them manually or, in case of resistance, by means of an hammer	

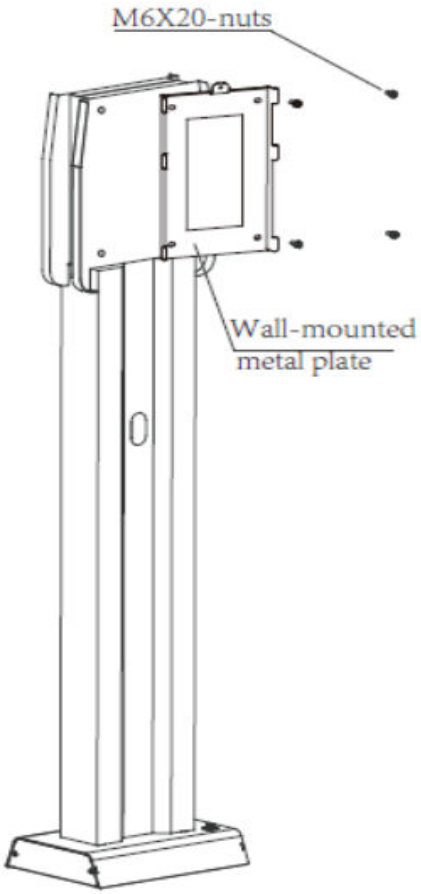
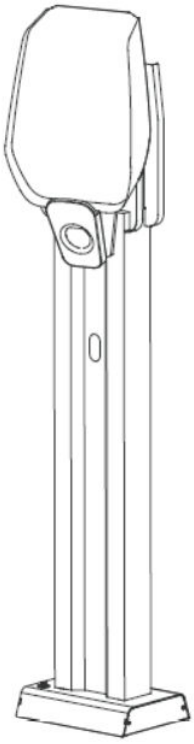
Step No.	Description	Picture
4	Open the black front cover of the charger (this can be done simply moving at the same time the two black cursors which lock the cover in the back side of the charger) Remove the anti-theft screw located on the top of the mounted bracket (marked with the red circle in the picture) Fix the wall mount bracket on the wall with the expansion screws	
5	Hang the charger on the wall mounted bracket. This is done just sliding, from top to bottom, the charger into the bracket binaries Then screw up the anti-theft screw	
6	Use scissors to cut the cross line of the rubber stopper and pass the cable through the rubber stopper	
7	Place the cable through the hole in the bottom of the charger into the wiring position inside the charger and then put the rubber stopper in the hole position at the bottom	

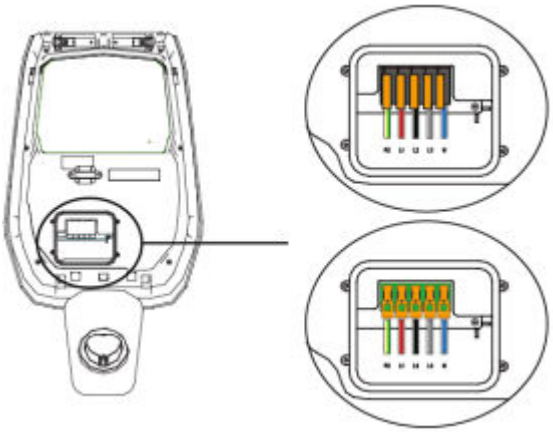
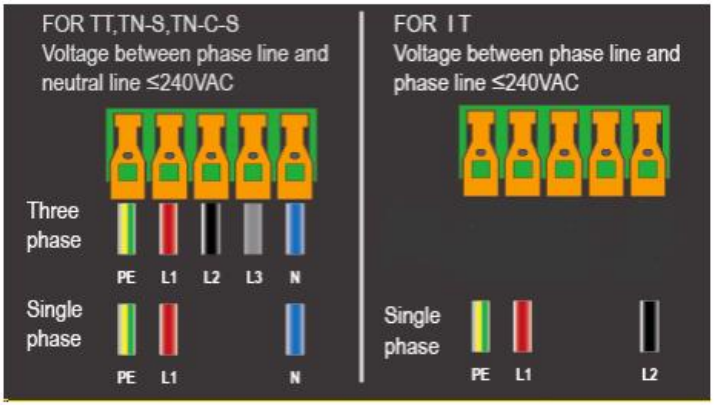
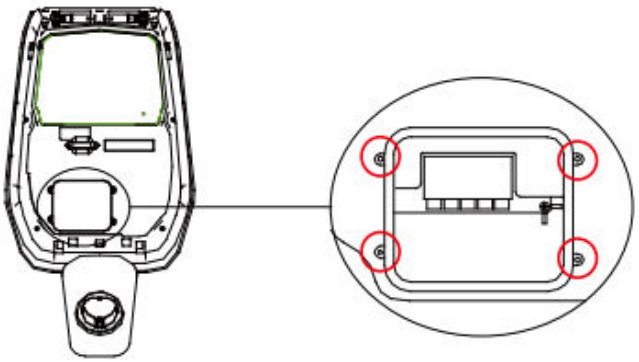
Step No.	Description	Picture
8	Make sure the input cable is not powered. Open the wire cover (circled in the picture), insert the power supply cables into the bottom hole, and connect the cables according to the signs as specified on the wire cover scheme. It should be noted that there is no device for fixing the input cable, so you must leave enough space for the cable to avoid the cable from being pulled by external forces, or you can add a cable fixing device which stabilize the input cable.	 
9	Close the wire cover and screw up the wire cover with 4 screws	
10	Close the front cover and the installation is finished	

6.9 Installation on stand

If the user decides not to install on the wall but on the dedicated stand, provided as accessory, the following steps shall be performed. Please note that, in this case, the screws and fixing accessories must be provided by the installer depending on the different conditions of the installation site.

Step No.	Description	Picture
1	Select a stable and solid concrete platform to fix the stand. In case such a platform is not available, pour a dedicated platform. The platform must be equipped with M10 bolts and a 40 mm diameter PVC conduit embedded below the base. The top part of the platform must be flat to have a safe and stable installation, avoiding dangerous breaks of the stand. In case of newly poured concrete platform, wait until it is solidified before proceeding.	
2	The depth of the M10 bolts buried in the poured platform shall be not less than 150mm, while the exposed length is recommended to be in the range from 15 to 30mm. The power cables, arriving through the PVC conduit shall be pulled out not less than 1.3m from the ground, to allow an easy installation of the cable.	
3	Incline the stand in order to insert the cable through the bottom side. Make the cable pass through, until it reaches the outlet in the middle of the stand. Pull the cable out of this outlet	
4	Put the stand in the vertical position and use the M10 nuts together with flat washers to secure the stand base to the concrete platform. An M6x20 bolt needs to be added to the stainless steel nut at the bottom of the stand to provide ground protection.	

Step No.	Description	Picture
5	Remove the wall mounted metal plate that comes with the charger. Then remove the four M6x20 bolts on the stand hanging plate. Finally align the holes of the two metal plates and fix them using the M6x20 bolts.	
6	Hang the charger on the stand just sliding it bottom side on the dedicated binaries and check it is stable. Each stand can be mounted with two chargers.	

Step No.	Description	Picture
7	Now the supply cable must be connected. Open the frontal cover. Make sure the input cable is not powered. Open the wire cover (circled in the picture), insert the power supply cables into the bottom hole, and connect the cables according to the signs as specified on the wire cover scheme. It should be noted that there is no device for fixing the input cable, so you must leave enough space for the cable to avoid the cable from being pulled by external forces, or you can add a cable fixing device which stabilize the input cable.	 
8	Close the wire cover and screw up the wire cover with 4 screws	
9	Close the front cover and the installation is finished. **<u>Important note:</u>** the front cover must be correctly installed and closed before using the charger. Do not use the device if the cover cannot be closed for any reason.	

7 Operation

After the charger is installed, it is ready for charging the EVs. The following describes the operating elements and the display/indicators elements of the charger.

7.1 Operating elements

8.1.1 Display Areas

The charger has three display areas AREA1, AREA2, AREA3 on its front side

Each AREA has its own function as in the following table:

Display Area	Type	Function description
AREA1	Not used in the EASY model	None
AREA2	Not used in the EASY model	None
AREA3	Not used in the EASY model	None
All around the charger	LED indicator	A LED belt is placed all around the charger and assumes different colours to indicate the current status (see table below)

LED Belt		
Colour	**Blinking mode**	**Status**
White	No blinking	Power on self test: the charger is switching on and performing the power on tests
Green	Blinking slowly	Stand-By mode: the charger is on, available for charging
Blue	Fast blinking	Pause during the charging process
Blue	No blinking	Charging mode setup: the charger is preparing to start the charging process
Blue	Blinking slowly	Charging mode: the charging process is ongoing
Red		Error mode: errors are detected by the internal protections

8 System connectivity

The charger is equipped with one type of connection interfaces:

- the WiFi Access Point interface: used for configuration and monitoring purpose

8.1 WiFi interface

The WiFi AP (Access Point) mode is available to let the person in charge of the installation or the user connecting to the charger.

The WiFi AP mode is the only one provided.

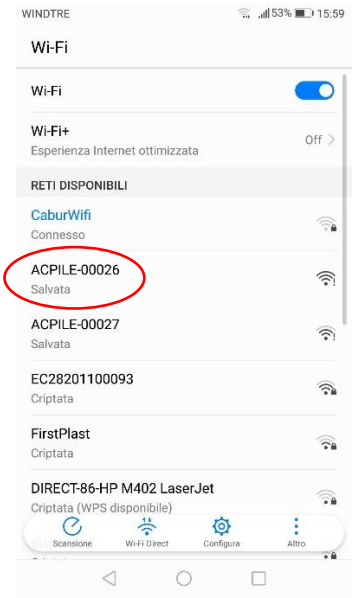
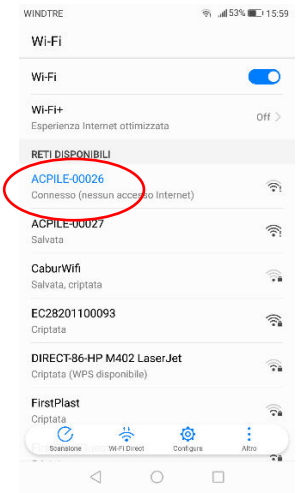
9.1.1 WiFi AP mode

The WiFi AP (Access Point) mode (also referred as “Hot Spot”) is mainly used for configuration and monitoring purposes.

In this mode, the charger creates a WiFi network with a specified SSID and the user can connect to that network, based on a point-to-point approach, to apply all the necessary configurations or to monitor the charger parameters.

The connection to the charger can be established by a PC, tablet or smartphone.

The following steps are necessary to setup the connection between the user device (PC, tablet, smartphone) and the charger:

Step No.	Description	Picture
1	Scan for available WiFi networks with the connecting device utility	
2	Connect the device (PC, Tablet, Smartphone) to the WiFi network generated by the charger (it should have an SSID name similar to ACPILE_xx or similar to a numeric string)	 

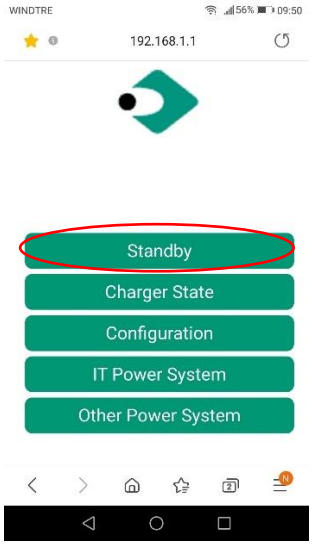
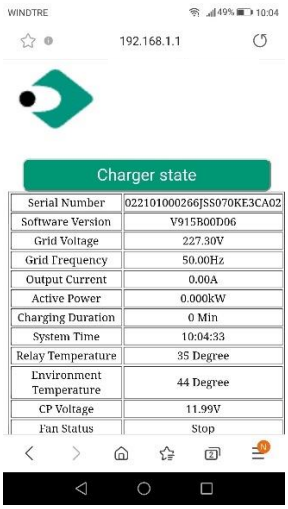
Step No.	Description	Picture
3	**Note:** only one device can be connected, to the AP, at a time	

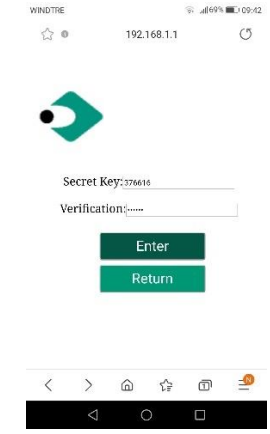
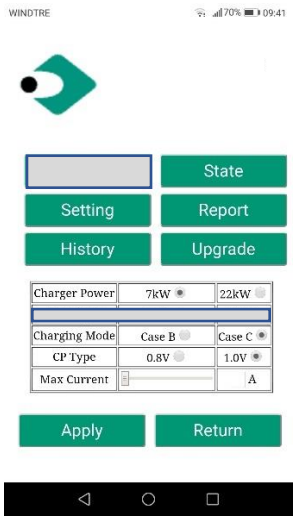
9.1.2 Configurations through WiFi AP mode

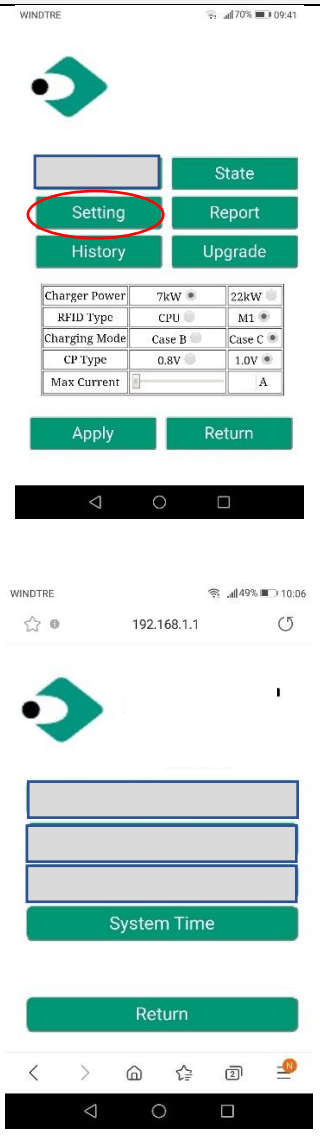
When connected through the AP, the user can configure the charger parameters. The configuration is performed by means of a web app which connects to the charger internal web server.

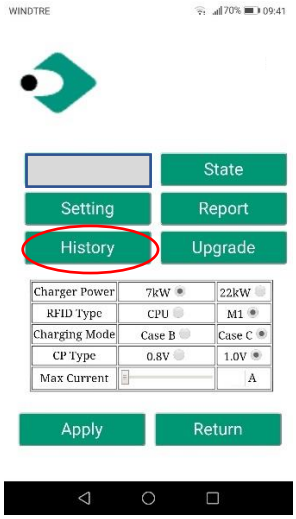
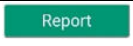
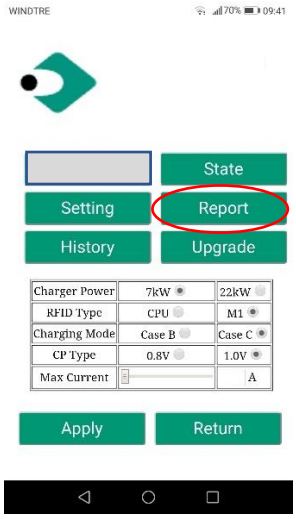
Please consider the following instructions to properly use the app for configuration.

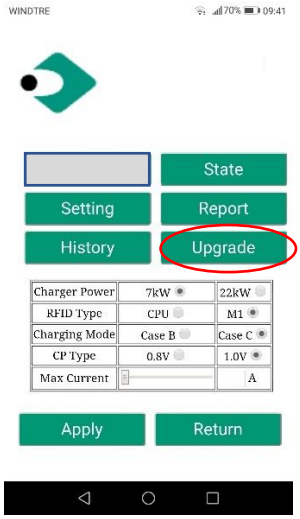
Step No.	Description	Picture
1	The connecting device (PC, tablet, smartphone) is connected to the charger WiFi AP. Open the internet browser. Connect to the following URL: http://192.168.1.1 The home page of the web app is shown.	

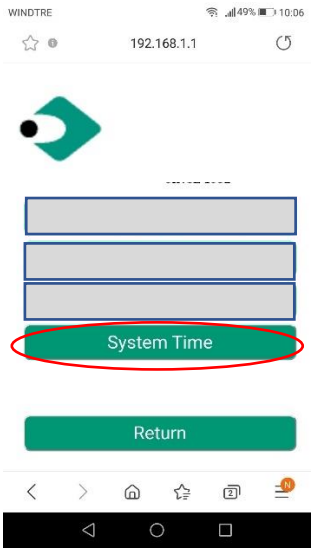
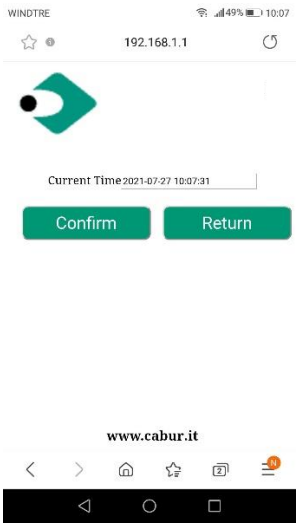
Step No.	Description	Picture
2	Standby button  This button indicates the status of the charging process with its label: • *Standby* means the charger is not charging	
3	Charger state button  Pressing this button, the user can access the charger state page to monitor all the parameters of the charger and their status. The user can return back to the home page just clicking on the “return button” at the end of the page	

Step No.	Description	Picture
4	Configuration button  Pressing this button, the user can access the charger configuration pages to set all the parameters of the charger. After clicking on the configuration button, a login window will appear. **Important note**: to enter into the configuration pages the user must insert a password. The default password is "123456". It must be entered into the "Verification" field. The user is now allowed to see the configuration main pages. From this page the user can access other pages by clicking the 6 buttons at the top of the page. These buttons will be explained later in the document. System parameter settings In this page the main system parameters can be set: • *Charge power*: set the output power value of the charger • *Charging mode*: set the mode with (case C) or without the cable (case B) • *CP type*: set the voltage value of the CP signal • *Max Current*: set the maximum charge current value (accepted range 6 – 32 A) **Important note**: these parameters shall be configured by qualified personnel only	 

Step No.	Description	Picture
5	Clicking on the "Setting" button Setting a new setting page is presented, with the following menus: • System time **Important note**: these parameters shall be configured by qualified personnel only	

Step No.	Description	Picture
6	Clicking on the "History"  button the user can access the historical logs of the device	 
7	Clicking on the "Report"  button the user can access the reports of the device	

Step No.	Description	Picture
8	Clicking on the "Upgrade" button Upgrade the user can upgrade the system (see chapter 10 for details) ⚠ **Important note**: these parameters shall be configured by qualified personnel only	

Step No.	Description	Picture
9	**Setting**/System time In this page the system time can be set. The correct time is automatically read from the connecting device and is shown in the "Current time" field. Clicking the "Confirm" button the time setting is saved as the charger time. ⚠ **Important note**: these parameters shall be configured by qualified personnel only	 

Step No.	Description	Picture
10	IT Power system  this button enables the charger to be supplied by IT power network systems Other Power systems  this button enables the charger to be supplied by TT or TN power network systems ⚠ The selected power system is indicated by the different colour of the button after the selection ⚠ **Important note**: these parameters shall be configured by qualified personnel only	

9 Charging process

Before starting the charging process the user must be sure the plug is correctly connected to the EV.
In the **CASE B** mode (without integrated cable) connect the cable to the charger and then to the EV on the other side.
In the **CASE C** mode (integrated cable) connect the cable to the EV.

The charging process starts automatically after connecting to the EV inlet.

When the charging process starts, the LED belt light changes from steady blue to blinking blue.

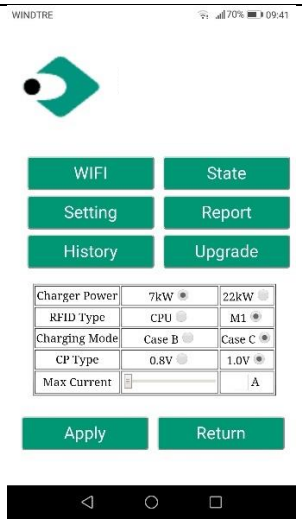
The plug cannot be disconnected when the charging process is running.

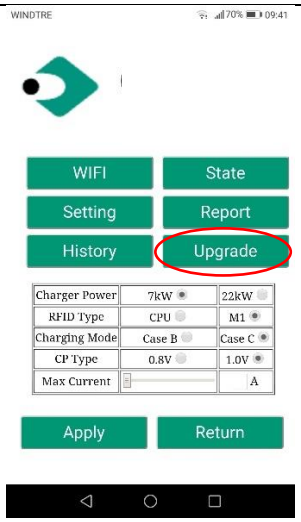
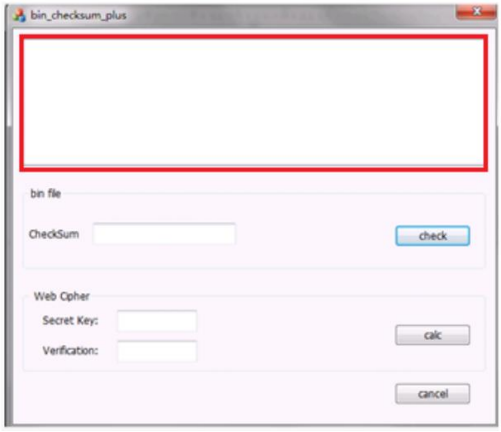
The charging process can be stopped by the web app button (see paragraph 9.1.2, point 1.a) or directly by the car controls. The connector can be unplugged only after the charging process stops.

⚠ **Important note**: for the CASE B mode (without the integrated cable), there is an electronic lock inside the charger to keep the electrical connection stable during the charging process. When charging is completed or a fault occurs, the electronic lock will automatically unlock, please do not pull it forcibly otherwise.

10 System upgrade

The following steps illustrate how to proceed to upgrade the system firmware

Step No.	Description	Picture
1	The connecting device (PC, tablet, smartphone) is connected to the charger WiFi AP. Open the internet browser. Connect to the following URL: http://192.168.1.1 The home page of the web app is shown.	
2	Clicking on the "Configuration" button a new setting page is presented, as in the attached picture **Important note**: these parameters shall be configured by qualified personnel only	

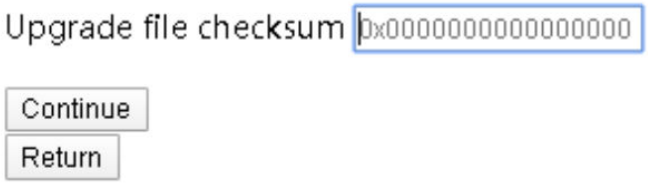
3	The upgrade process is initiated by clicking on the “Upgrade” button After entering the system upgrade page, the user must follow all the indications provided by the page itself, to avoid failures in the process and make it complete in a successful way. ⚠ **Important note**: these parameters shall be configured by qualified personnel only. ⚠ **Important note:** Make sure not to disconnect during the upgrade process	
4	Identify and select the upgrade file provided by the manufacturer (it is typically a file named as ***<name_of_the_upgrade_file>.bin***). This file can be eventually downloaded directly from the manufacturer website or requested directly to the manufacturer customer care office.	
5	Open the check_sum_tool provided by the manufacturer. This tool is a software application, which runs on PCs, used to generate the verification code for login and to automatically generate the MD5 checksum to validate the upgrade file integrity. Drag and drop the upgrade file <name_of_the_upgrade_file>.bin into the red check box in the check_sum_tool interface. Then click the “check” button.	

<table>
<tr><td>6</td><td>A check sum MD5 value will automatically appear in the “Checksum” box.

the verification code generation is not necessary if the user already has the MD5 code, provide by the manufacturer (in this case the point 5 can be skipped)

The user shall now copy the value in the “Checksum” box.</td><td></td></tr>
<tr><td>7</td><td>Now the user must be back to the system upgrade page in the web app.

The checksum value generated by the check_sum_tool shall be copied in the “Upgrade file checksum” field.

The “Continue” button shall be clicked after that.</td><td> 
</td></tr>
<tr><td>8</td><td>The upgrade process starts and will last more or less 15 sec.

At the end of the process a message could be presented on the charger display, indicating the result of the upgrade process.
In case of no message the charger is completely restarted if the welcome message appears.

<u>Important note:</u> The system is able to restart only if the status message is “100 UP”, which means successful upgrade.
Do not restart the system otherwise and contact the manufacturer.</td><td><table>
<tr><td>LED display</td><td>Meaning</td><td>Remarks</td></tr>
<tr><td>100 UP</td><td>Upgrade success</td><td>Wait for the device to restart automatically</td></tr>
<tr><td>E01 UP</td><td>Upgrade failed</td><td>Failed to write flash</td></tr>
<tr><td>E02 UP</td><td>Checksum error</td><td>Checksum not match</td></tr>
<tr><td>E03 UP</td><td>Upgrade timeout</td><td>No valid data received within 15s</td></tr>
<tr><td>E04 UP</td><td>Bin File Mismatch</td><td>Upgrade file does not match the AC Charger</td></tr>
</table></td></tr>
</table>

11 Language configuration

The charger is configured with its factory default language. Other languages can be configured for the web-app interface, by a system upgrade operation with the same process illustrated in chapter 10.

This system upgrade operation will not affect the system functionalities but will only change the language.

The user can upload the system upgrade file which contains his own language, for example it is possible to have:

<name_of_the_upgrade_file>_**IT**.bin (IT = italian language)
<name_of_the_upgrade_file>_**EN**.bin (EN = english language)
<name_of_the_upgrade_file>_**DE**.bin (DE = german language)
<name_of_the_upgrade_file>_**ES**.bin (ES = spanish language)
<name_of_the_upgrade_file>_**FR**.bin (FR = french language)
<name_of_the_upgrade_file>_**FR**.bin (DK = danish language)

……

Repeating the system upgrade procedure, as described in chapter 12, will upload the charger firmware file with the selected language. This makes the app interface pages displayed in the language preferred by the user.

Important notes: these parameters shall be configured only by qualified personnel