

# User Manual

## Keywatt 24 Wallbox



DUM017267-EN\_V001



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All pertinent state, regional, and local safety regulations must be observed when installing and using this product. For reasons of safety and to help ensure compliance with documented system data, only the manufacturer should perform repairs to components.

When devices are used for applications with technical safety requirements, the relevant instructions must be followed.

Failure to use IES Synergy software or approved software with our hardware products may result in injury, harm, or improper operating results.

Failure to observe this information can result in injury or equipment damage.

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# 1. Safety notes

## Notice

Read these instructions carefully, and look at the equipment to become familiar with the device before trying to install, operate, or maintain it. The following special messages may appear throughout this documentation or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.



The addition of this symbol to a Danger hazard statements indicates that an electrical hazard exists, which result in personal injury if the instructions are not followed.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

### **DANGER**

**DANGER** indicates an imminently hazardous situation which, if not avoided, **will result** in death or serious injury.

### **WARNING**

**WARNING** indicates a potentially hazardous situation which, if not avoided, **can result** in death or serious injury.

### **CAUTION**

**CAUTION** indicates a potentially hazardous situation which, if not avoided, **can result** in minor or moderate injury.

### **NOTICE**

**NOTICE** is used to address practices not related to physical injury.

## Please note

Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel in accordance with the National Electric Code, ANSI/NFPA 70. No responsibility is assumed by IES Synergy for any consequences arising out of the use of this material.

A qualified person is one who has skills and knowledge related to the construction and operation of electrical equipment and its installation, and has received safety training to recognize and avoid the hazards involved.

## 2. About the manual

### Purpose of this manual

Technical documentation is an integral part of a product. Until it is disposed of, always keep the technical documentation close to the unit at hand, as it contains important information. Provide technical documentation to the person concerned if you sell, assign or lend the product.

This guide aims to provide informations needed for the use of the Keywatt 24 Wallbox mono (G3) and multi-standard (G3X). This guide must be read in integrality with others related documents. This guide is intended for users of the charging stations.

### Document scope

This guide concerns the following charging station :

- WBG3 3PN CHARGER
- WBG3 3PN+NRJ CHARGER
- WBG3 3P CHARGER
- WBG3 1PN CHARGER
- WBG3X\_BI 3PN CHARGER
- WBG3X\_BI 3PN+NRJ CHARGER
- WBG3X\_BI 3P CHARGER
- WBG3X\_BI 1PN CHARGER

### Related documents

Document title	Reference
Installation Manual	DIM017267-EN
User Manual	DUM017267-EN
Service Manual	DMM017267-EN

### User comments

We invite you to write us to communicate any inaccuracies or omissions, or to make general comments or suggestions regarding the quality of this manual.

## 3. General Safety instructions

### IMPORTANT SAFETY INSTRUCTIONS

#### **WARNING**

##### **SAVE THIS MANUAL**



- To ensure proper and safe operation, please read these user instructions carefully and keep them for future reference.
- This manual contains important instructions for the DC quick charger that shall be followed during installation, operation and maintenance of the unit.
- This equipment shall be installed, adjusted, and serviced by qualified electrical personnel familiar with the construction and operation of this type of equipment and associated hazards in accordance with the National Electric Code, ANSI/NFPA 70.
- Unit having an ambient temperature rating higher than 77°F (25°C) – “Maximum ambient temperature rating 55°C.”
- CAUTION - Disconnect switch for each ungrounded conductor of AC input shall be provided by others in accordance with the National Electric Code, ANSI/NFPA 70.

**Failure to follow these instructions can result in death, serious injury or equipment damage.**

#### **WARNING**

##### **RISK OF ELECTRIC SHOCK, INJURY, AND/OR BURNING**



- Only qualified, trained and authorized people will repair, replace or adjust this equipment in accordance with the National Electric Code, ANSI/NFPA 70.
- Make sure the AC input breaker is OFF and measures 0V before the breaker.
- Do not use this product if the cables (input or output) are frayed, have damaged insulation or any other signs of damage.
- Do not use this product if the enclosure or the EV connectors are broken, cracked, opened or show any other indication of damage.
- Do not use a cord extension set or second cable assembly in addition to the cable assembly for the connection of the EV to the EVSE.
- Do not alter AC plug provided – where it does not fit outlet, have proper outlet installed by a qualified electrician in accordance with the National Electric Code, ANSI/NFPA 70. Improper connection increases the risk of an electric shock.
- Charger shall be grounded to reduce risk of electric shock. Charger is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. The plug is to be plugged into an outlet that is properly installed and grounded in accordance with all local codes and ordinances.
- This unit is for use on a circuit having a nominal rating more than 120V and is factory-equipped with a specific electric cord and plug that connects to an electric circuit. Make sure that the charger is connected to an outlet having the same configuration as the plug. Adapters shall not be used with this charger.
- This equipment employs parts, such as switches and relays, that tend to produce arcs or sparks. When used outdoor, this equipment must be installed not or less than 24” (600 mm) above the floor.

**Failure to follow these instructions can result in death, serious injury or equipment damage.**

#### **NOTICE**

##### **READ THIS MANUAL**

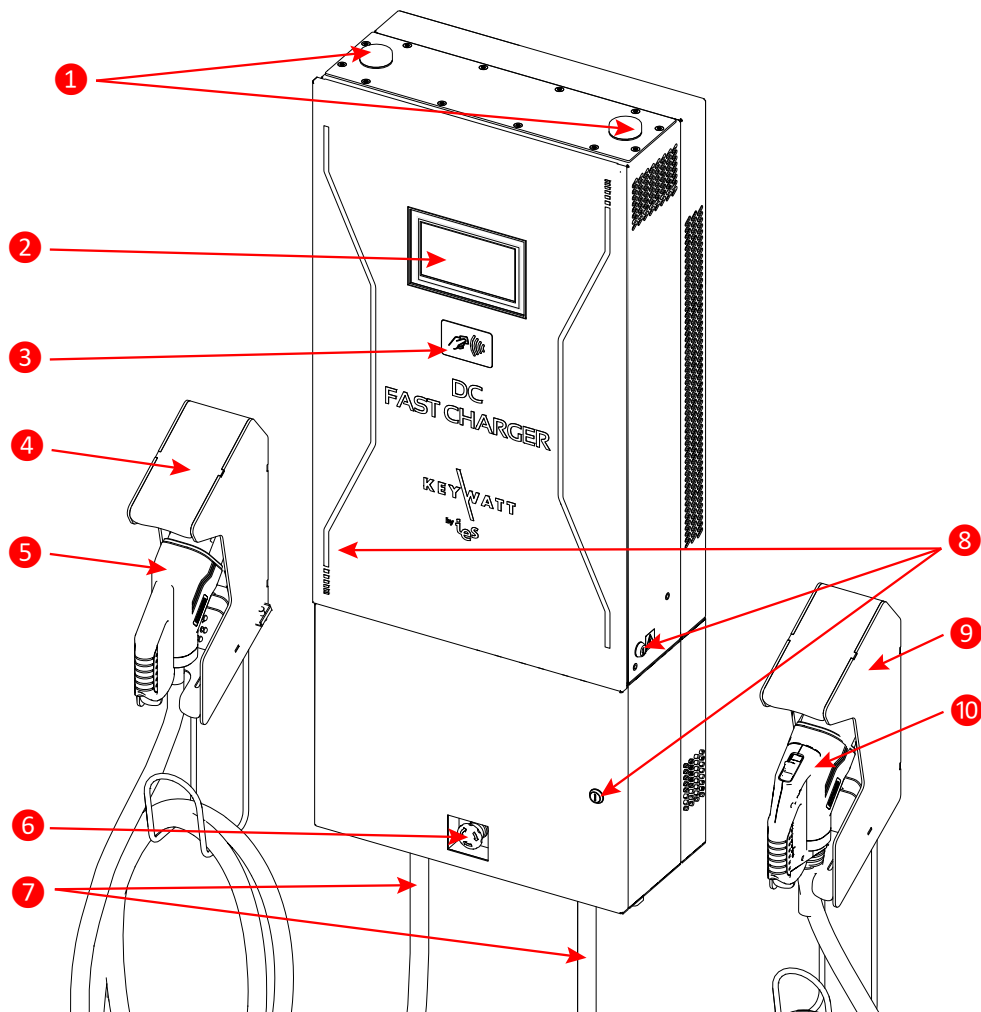


- The locking key, supplied with unit, should be kept in a secure and known location by an individual that has read and understands the content of this manual.
- Do not open the front cover at any time while input power is present.
- Do not operate the unit while the cabinet door is opened or unlocked.

**Failure to follow these instructions can result in death, serious injury or equipment damage.**

## 4. Overview

### External view



Position	Description
1	Antennas
2	Touch screen
3	RFID reader
4	Connector support
5	Output CCS Combo 1 DC connector
6	Emergency Stop button
7	Output cable
8	Key locker
9	Connector support
10	Output CHAdeMO DC connector

**Note:** May change depending on version or technical modification

## 5. Specification

### Main supply

#### 3-phase L1/L2/L3 + N + GND 3x480V<sub>AC</sub>

The charging station can be connected to several mains supplies. This table shows the main power supply characteristics required for the following Wallbox configurations operation:

- WBG3 3PN CHARGER
- WBG3 3PN+NRJ CHARGER
- WBG3X\_BI 3PN CHARGER
- WBG3X\_BI 3PN+NRJ CHARGER

Mains supplies 3-phase L1/L2/L3 + N + GND 3x480V <sub>AC</sub> (24kW)			
Mains 3-phase voltage range	V <sub>AC</sub>	480 V <sub>AC</sub>	± 10%
Earthed electrical system	TT or TN		
Frequency range	f	60 Hz	± 10%
Nominal input current	I <sub>AC</sub>	32A	Nom
Maximum input current	I <sub>AC</sub>	45A	Max
Power Factor	PF	0,99	Nom
Efficiency	η	95 %	Nom
Harmonic current @ nominal network voltage	THDi	< 13 %	Max

#### 3- phase L1/L2/L3 + GND 3x208-240V<sub>AC</sub>

The charging station can be connected to several mains supplies. This table shows the main power supply characteristics required for the following Wallbox configurations operation:

- WBG3 3P CHARGER
- WBG3 X\_BI 3P CHARGER

Mains supplies 3- phase L1/L2/L3+GND 3x208-240V <sub>AC</sub> (24kW)			
Mains 3-phase voltage range	V <sub>AC</sub>	208-240 V <sub>AC</sub>	± 10%
Earthed electrical system	TT, TN or IT		
Frequency range	f	60 Hz	± 10%
Nominal Input current	I <sub>AC</sub>	72-63A	Nom
Maximum Input current	I <sub>AC</sub>	80A	Max
Power Factor	PF	0,99	Nom
Efficiency	η	95 %	Nom
Harmonic current @ nominal network voltage	THDi	< 13 %	Max

#### Single-phase L1 + L2/N + GND 1x208-277V<sub>AC</sub>

The charging station can be connected to several mains supplies. This table shows the main power supply characteristics required for the following Wallbox configurations operation:

- WBG3 1PN CHARGER
- WBG3 X\_BI 1PN CHARGER

Mains supply single-phase L1 + L2/N + GND 1x208-277V <sub>AC</sub> (24kW)			
Mains single-phase voltage range	V <sub>AC</sub>	208-277 V <sub>AC</sub>	± 10%
Earthed electrical system	TT or TN		
Frequency range	f	50/60 Hz	± 10%



<b>Mains supply single-phase L1 + L2/N + GND 1x208-277V<sub>AC</sub> (24kW)</b>			
Nominal Input current	$I_{AC}$	128-95A	Nom
Maximum Input current	$I_{AC}$	140A	Max
Power Factor	PF	0,99	Nom
Efficiency	$\eta$	95 %	Nom
Harmonic current @ nominal network voltage	THDi	< 13 %	Max

## Technical specification

<b>Internal AC input protection</b>			
Inrush current limitation per phase	$I_{INRUSH\ LIMIT}$	< 3 x $I_{AC}$	Max
Rated Current Fuse (per module)	$I_{BREAK}$ Rating	80A	typ
Breaking capacity of fuses	$I_{BREAK}$ Capacity	80 000A	Max
Max earth leakage current	$I_{LEAKAGE}$	< 3,5 mA	Max
Emergency button connection	Yes		
Overvoltage (IEC60664-1)	OV III		
Insulation protection Class (IEC60664-1)	Class I		

<b>Internal DC Output</b>			
Output voltage	$V_{DC\_max}$	530 V <sub>DC</sub>	Max
	$V_{DC\_min}$	150 V <sub>DC</sub>	Min
Output current	$I_{DC\_max}$	65A <sup>(1)(2)</sup>	Max
	$I_{DC\_min}$	1,5A	Min
Max Output Power	$P_{OUT}$	24kW	Max
Output connector (charging station side)	Permanent mounting		
Car Plug coupler	Plug #1	CCS Combo 1 / CHAdeMO	
	Plug #2	None / CCS Combo 1 / CHAdeMO	
Output cable length	-	13 ft. (4m)	

<b>Internal DC output protection</b>			
Hardware and software short circuit protection	Yes		
Software and Hardware over voltage protection	adjustable	+10% max	
Over temperature protection	-	158°F (70°C)	
Reverse polarity protection	Yes		
DC output Contactor	Yes (2 poles)		
Rated Current Fuse (output)	$I_{FUSE}$	125	A
Galvanic isolation	$V_{input/output}$	5200	V <sub>DC</sub>
Max time for DC line discharge < 60V	$T_{<60V}$	1	s

<b>Embedded Insulation device of charger module</b>	
Response time (tan)	< 3sec. for asymmetrical fault < 62sec. for symmetrical fault
Self test time	At power on and every 60s during charge
Internal resistance Ri of the measuring circuit	1.5Mohms permanent 750Kohms continuous measurement 300Kohms during simultaneous switching measurement
Measurement method	Continuous and switching measurement resistor method

Embedded Insulation device of charger module	
Measuring current $I_m$	< 1,4mA at $R_F=0$
Measurement range (Ran)	20Kohms...300Kohms
Relative uncertainty	$\pm 15\%$
Line L+/L- Voltage ( $U_n$ )	DC 150V...530V
System leakage capacity $C_e$	$\leq 1\mu F$ : response value (Ran) and time (tan) are not guaranteed for capacity above $1\mu F$
Parallelization	<b>⚠ Warning:</b> Do not connect the insulation monitor device (IMD) in parallel !! Response value (Ran) and time (tan) are not guaranteed.

General & dimensions			
External dimensions (H x W x D)	WBG3 (monostandard)	34 x 20 x 10 inches (860 x 507 x 250 mm)	
	WBG3X_BI (multistandard)	48 x 20 x 10 inches (1225 x 507 x 250 mm)	
Weight (without bracket)	WBG3 (monostandard)	146 lbs (66kg)	Max
	WBG3X_BI (multistandard)	205 lbs (93kg)	Max
Type of installation	Mounting on a wall or on a pedestal with proper fixation point		
Fixation points	8 screws for wall mounting		
Protection type (EN60529)	IP	IP55	
Cooling systems	Heatsink with forced air flow by fans IP55 without air filter		
Noise (40 in., all direction)	Db(A)	65dbA	

Climatic & Environment constraints		
Operating temperature (with derating)	-13°F to +122°F <sup>(3)</sup> (-25°C to +50°C)	
Storage temperature	-13°F to +140°F (-25°C to +60°C)	
Relative humidity	RH	10% to 95%
Installation altitude	Alt Max	6500ft. (2 000m)

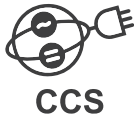
Norms & standards	
Standard for Electric Vehicle (EV) Charging System Equipment	UL 2202
Standard for Power Conversion Equipment	CSA C22.2 No. 107.1-16
Standard for Personnel Protection Systems for Electric Vehicle (EV) Supply Circuits; Part 1: General Requirements	UL 2231-1
Standard for Personnel Protection Systems for Electric Vehicle (EV) Supply Circuits; Part 1: General Requirements	CSA22.2 No. 281.1-12
Standard for Personnel Protection Systems for Electric Vehicle (EV) Supply Circuits; Part 2: Particular Requirements for Protective Devices for Use in Charging Systems	UL 2231-2
Standard for Personnel Protection Systems for Electric Vehicle (EV) Supply Circuits; Part 2: Particular Requirements for Protective Devices for Use in Charging Systems	CSA C22.2 No. 281.2-12

<sup>(1)</sup> Max output current will be adapted versus maximum carrying current of the vehicle plug.

<sup>(2)</sup> Output current can be even reduced with the power derating versus temperature.

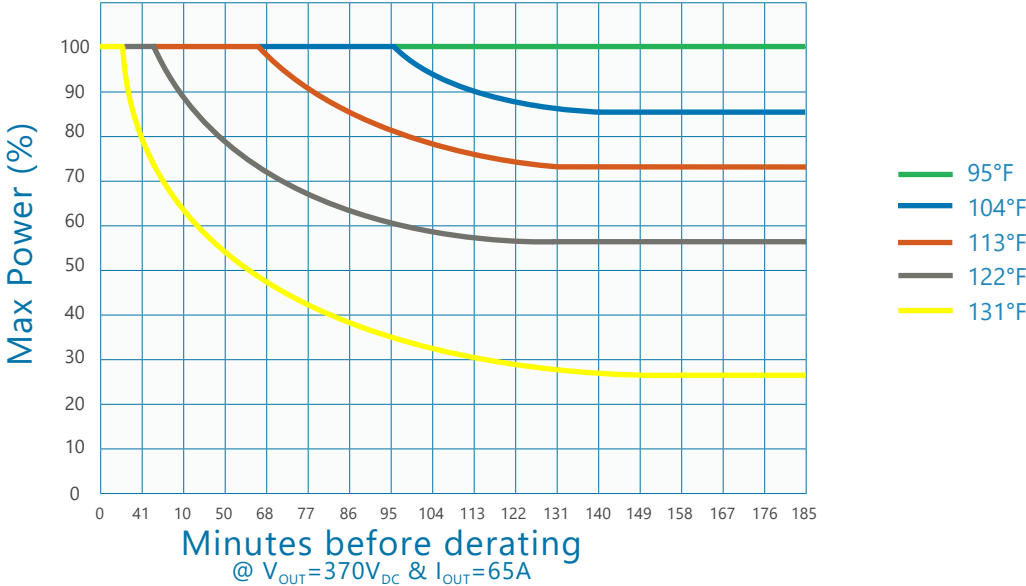
<sup>(3)</sup> Potential derating above 95°F.

### Compliance



### Derating

As a direct correlation exists between the current and ambient temperature a derating curve is provided for all charging station.



The maximum ambient temperature rating for this product is 131°F (55°C).

## 6. Operating instructions

### Start a Vehicle Charge Session

Before starting a charge session:

Ensure the unit is properly assembled in accordance with the assembly instructions before it is used. You must have a RFID Card activated on backend server or being connected to backend App.

1. A) Swipe an activated RFID card once across the card reader  
or  
B) Remotely start the charge through an application linked to the backend
2. A) The unit will beep once indicating the card swipe was successful  
B) Wait for display indication
3. The display will show if the charge has been authorized
4. The display will instruct the user when to plug into the vehicle
5. Plug the coupler firmly into the vehicle. The latch should click
6. Observe the display and charging will begin once the car acknowledges the charger

### Stop a Vehicle Charge Session

The charger will automatically stop once charging is completed. Fast charging will occur up to 80% of the vehicle's battery state of charge. The charger will adjust its output according to the demands of the vehicle, ambient temperatures and other factors.

To stop charging before the end of the charging cycle follow these steps:

1. A) With the same card that the session was initiated with, swipe over the card reader  
or  
B) Remotely stop the charge through an application linked to the backend
2. The display will indicate that the session is ending
3. Once the session has ended the vehicle will unlock the coupler. A click may be heard at the vehicle/coupler
4. Once unlocked, remove it from the vehicle charging inlet
5. Return the coupler to the dock on the charging station

### Emergency Stop

In the event of an emergency the Emergency Stop button may be depressed to instantly stop charging.

To emergency stop follow these steps:

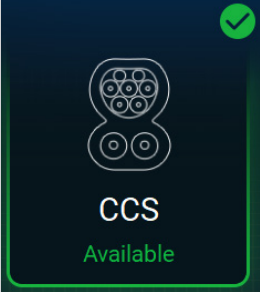
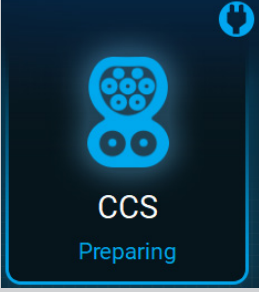
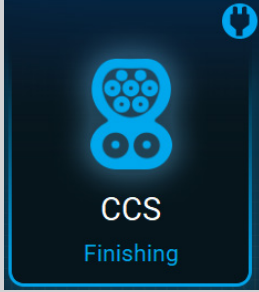
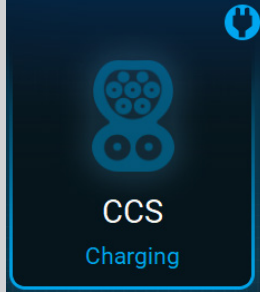
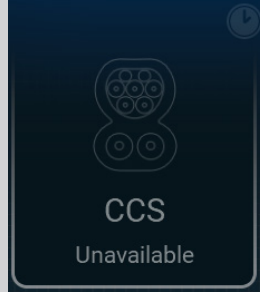
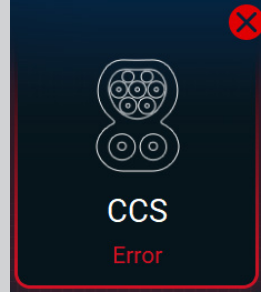
1. Depress the emergency stop button below the charger
2. The display will show the text "Error occurred: 0x02 Emergency stop was launched. Please unplug your vehicle and check the emergency button is released."
3. Unplug the coupler from the vehicle

To reset after emergency stop rotate the button clockwise until it pops outward. After a self-test the display will remove the emergency stop message and will be ready for a new session.

## 7. Utilization

### Human/Machine interface (HMI)

Color code

	Fixed	Blinking		
Available	Preparing/Finishing	Charging	Unavailable	Error
	 			

**Note:** Applicable in COMBO and CHAdeMO.

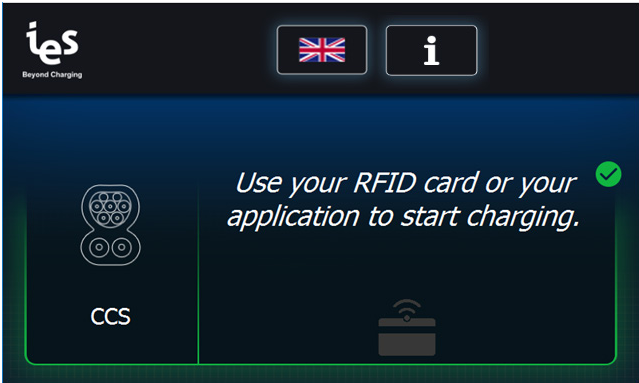
#### Charger states

- **Available:** Connector available
- **Preparing:** Charge preparation
- **Finishing:** Charge ending or ended but connector still connected to the vehicle
- **Unavailable:** Connector unavailable
- **Error:** An error has occurred

# Charge selection

Depending on your configuration, the Wallbox offers up to 3 means of connection to the vehicle. Simultaneous charging of two electric vehicles is not possible.

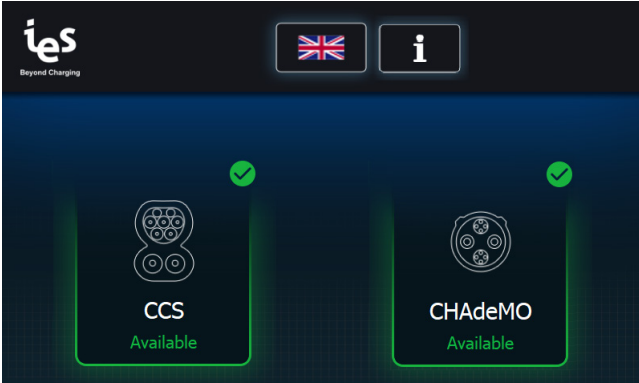
## Mono-Standard version



**Note:** Applicable in COMBO and CHAdeMO

## Bi-Standard version

The choice of the type of charge is made by selecting the right logo directly on the touch screen.

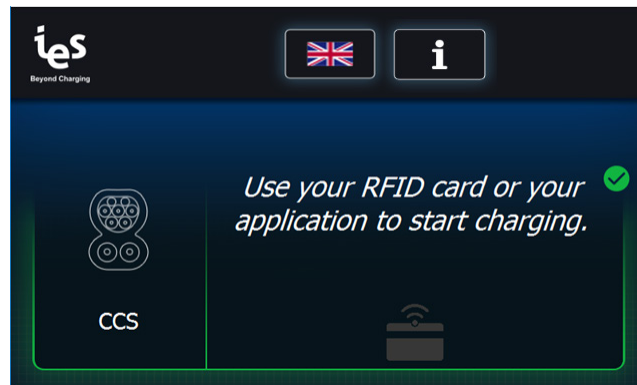


## User identification

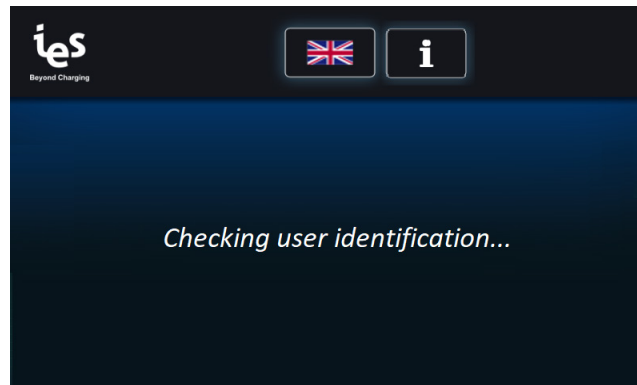
Once the type of charge selected, an identification screen is displayed.

When an user wants to recharge the electrical vehicle, there are 2 ways to identify on the charging station:

- to swipe an activated RFID card once across the card reader, or
- to remotely start the charge through an application linked to the supervision tool.



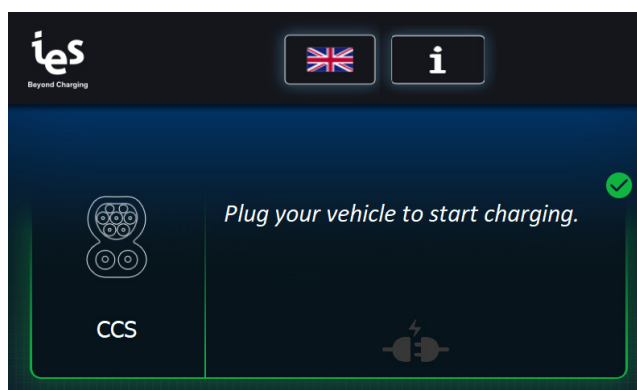
**Note:** Applicable in COMBO and CHAdeMO



**Note:** Applicable in COMBO and CHAdeMO

## EV connection

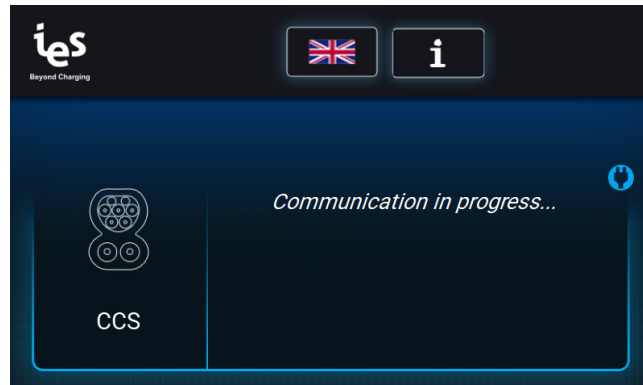
The charging station invites the user to connect the EV with the following screen:



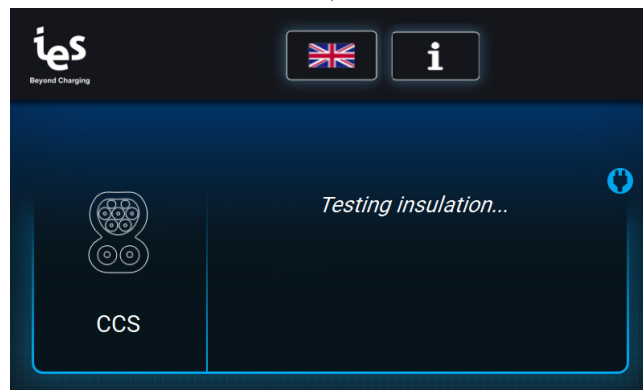
**Note:** Applicable in COMBO and CHAdeMO

## EV communication

Before starting a charge, the charging station communicates with the electrical vehicle to collect information. All these steps are necessary to adapt the charging station parameters to the electrical vehicle.



**Note:** Applicable in COMBO and CHAdeMO



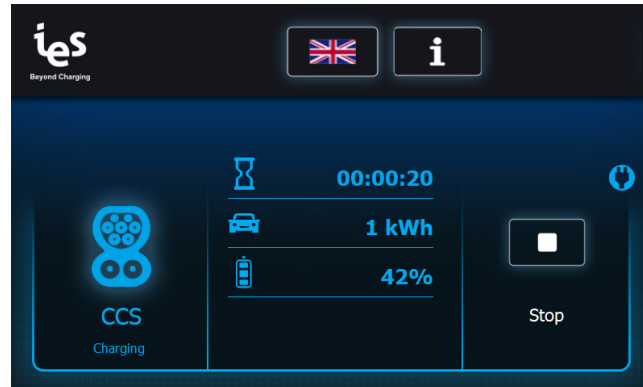
**Note:** Applicable in COMBO and CHAdeMO



## EV charge

### Combined Charging System (CSS) and CHAdeMO

During the charge of the electrical vehicle, the charging station shows the charge informations (time since the start of charging, charged energy and percentage of charge).



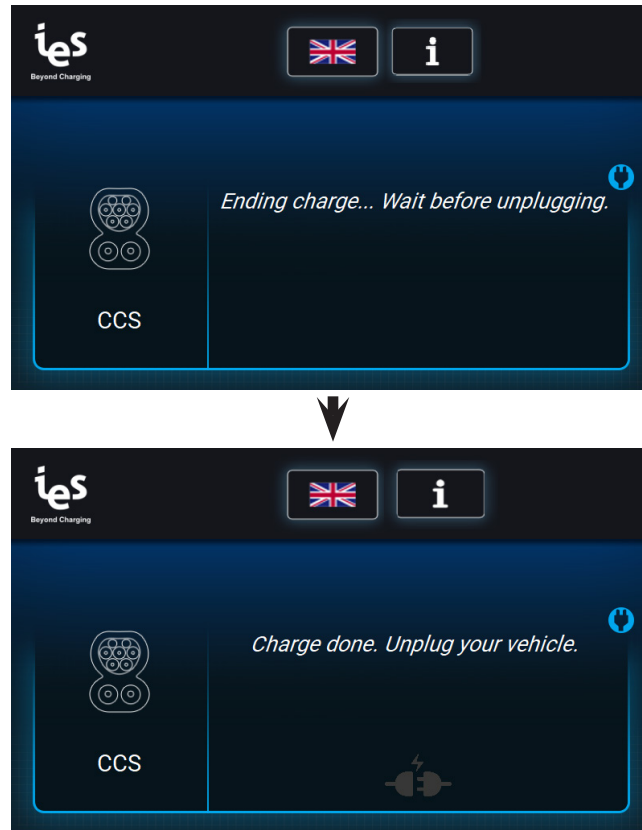
**Note:** Applicable in COMBO and CHAdeMO

## End of charge

After completing the charge of the electric vehicle, the charging station performs multiple control steps before disconnecting the vehicle.

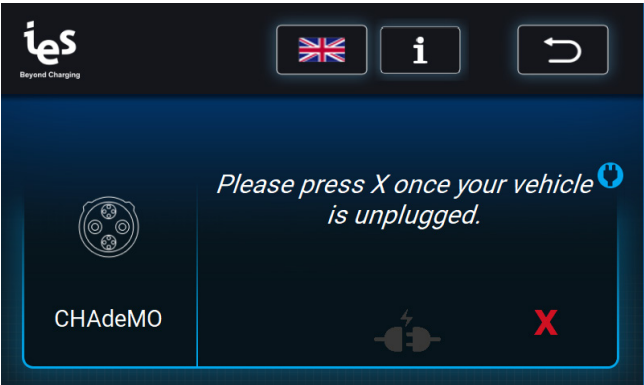
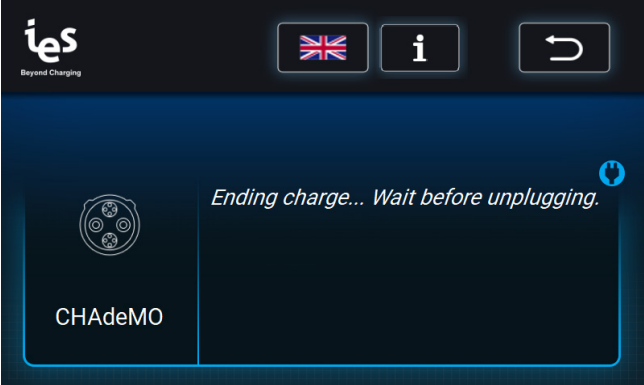
### Combined Charging System (CCS)

When the COMBO protocol is used, the user can unplug the vehicle once the charge is done.



### CHAdeMO

When the CHAdeMO protocol is used, the user must press the red cross after unplugging his vehicle.

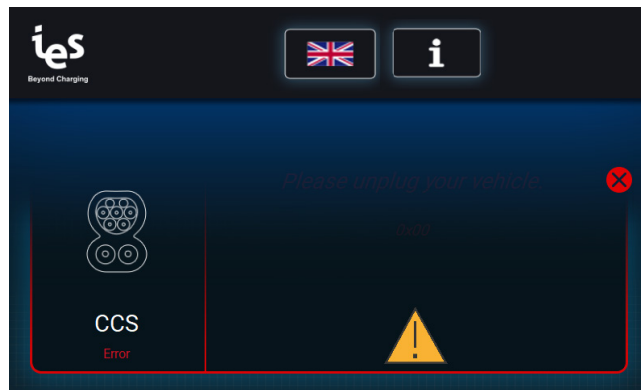


## 8. Displayed messages

Message	Description
Error connecting server. Booting interrupted ! Please call support.	Message displayed during the startup of the charging station if the backend server reject the connection.
Error connecting to RFID reader. Booting interrupted ! Please call support.	Message displayed during the startup of the charging station if the RFID module does not work. Please contact support.
Error connecting to Communication Control Unit. Booting interrupted ! Please call support.	Message displayed during the startup of the charging station if the CCU board does not work. Please contact support.
Charger inoperative. Cannot charge here.	Charger inoperative. Backend server request charger does not accept charge
Charger inoperative. Please unplug your vehicle.	Charger inoperative. Backend server request charger does not accept charge. Unplug the vehicle.
Authorization failed! Please retry identifying.	User rejected by the backend server.
Charger offline. Set up to refuse offline charging.	Charger offline.
Error timeout. Please unplug your vehicle then identify.	Time out, user identified, unplug the vehicle before retrying to identify.
Plug your vehicle to start charging. Vehicle not detected. Retrying... X	ChaDeMo only: User identified, waiting for electrical vehicle connection.
Error: Authorization failed. You cannot stop the charge session.	The charge cannot be interrupted by this user who is not recognized by the backend server.
To stop charging, use your RFID card or your application.	User wants to stop the charge. He should identify himself to be able to switch off the charge and disconnect his vehicle.
Charge done. Wrong RFID pass. Unplug your vehicle.	User not recognized by the backend server.. Charging terminated. Unplug the vehicle.
Charge done. Wrong RFID pass. Unplug your vehicle then identify to end your session.	ChaDeMo only: User not recognized by the backend server.. Charging terminated. Unplug the vehicle.
Station shut down. Please reboot.	Charging station shut down. Please contact support to restart the charging station.
Updating station... Charging not available.	Charging station is being updated. Please wait.
Error updating. DO NOT CHARGE HERE. Wait for correct update.	Error updating. Please contact support for updating the charging station.
Remote reset started... Station will reboot now.	Station is being rebooted.
Station rebooted. Please unplug your vehicle.	CCS only: Station rebooted during a charge. Please unplug and retry to launch the charge.
Warning: insulation failure.	Cable insulation failed. Please contact support.

## 9. Errors

The error messages are displayed with a characteristic screen. They are thus easily identifiable by the user. A warning pictogram is displayed along with the error message as shown below.



**Note:** Applicable in COMBO and CHAdeMO

The table below list errors messages who appears on the screen.

Error	Error resolution
Error occurred: 0x02 - 0X03 - 0X81 Emergency stop. Please unplug your vehicle and release the emergency button.	<b>Not in CHAdeMO:</b> Emergency stop was initiated. Please unplug your vehicle and release the emergency button.
Error occurred: 0x02 - 0X03 - 0X81 Emergency stop. Please unplug your vehicle and release the emergency button.	<b>CHAdeMO only:</b> Emergency stop was initiated. Please unplug your vehicle, press X and release the emergency button.
Error occurred: 0x0A - 0x86 The charging station is overheating. Please unplug your vehicle and check that no air vent is clogged.	<b>Not in CHAdeMO:</b> The charging station is overheating. Please unplug your vehicle and check that no air vent is clogged.
Error occurred: 0x0A - 0x86 The charging station is overheating. Check that no air vent is clogged. Please press X once your vehicle is unplugged.	<b>CHAdeMO only:</b> The charging station is overheating. Please unplug your vehicle, press X and check that no air vent is clogged.
Error occurred: 0x51 The connection with the vehicle was lost. Please unplug your vehicle.	<b>Not in CHAdeMO:</b> The connection with the vehicle was lost. Please unplug your vehicle.
Error occurred: 0x07 - 0x29 - 0x51 The connection with the vehicle was lost. Please press X once your vehicle is unplugged.	<b>CHAdeMO only:</b> The connection with the vehicle was lost. Please unplug then press X.
Error occurred: 0x22 - 0x33 Connector error. Please keep the connector closely leant against your vehicle when plugging, until the charge has started.	<b>Not in CHAdeMO:</b> Connector error. Please keep the connector closely leant against your vehicle when plugging, until the charge has started.
Error occurred: 0x22 The connector cannot lock. Please keep the connector closely leant against your vehicle when plugging, until the charge has started. Please press X once your vehicle is unplugged.	<b>CHAdeMO only:</b> The connector cannot lock. Please keep the connector closely leant against your vehicle when plugging, until the charge has started. Please press X once your vehicle is unplugged.

Error	Error resolution
Error occurred: 0x3A Your battery model is incompatible with this charger. Please unplug your vehicle.	<b><u>Not in CHAdeMO:</u></b> Your battery model is incompatible with this charger. Please unplug your vehicle.
Error occurred: 0x11 Your battery model is incompatible with this charger. Please press X once your vehicle is unplugged.	<b><u>CHAdeMO only:</u></b> Your battery model is incompatible with this charger. Please unplug then press X.
Error occurred: 0x32 Your gear is not in parking position. Please unplug your vehicle and engage gear in parking position.	<b><u>Not in CHAdeMO:</u></b> Your gear is not in parking position. Please unplug your vehicle and engage gear in parking position.
Error occurred: 0x14 Your gear is not in parking position. Please press X once your vehicle is unplugged.	<b><u>CHAdeMO only:</u></b> Your gear is not in parking position. Please unplug your vehicle, press X and engage gear in parking position.
Error occurred: 0x15 Your vehicle raised an error. Please check error message in the vehicle and unplug your vehicle.	<b><u>Not in CHAdeMO:</u></b> Your vehicle raised an error. Please check error message in the vehicle and unplug it.
Error occurred: 0x15 Your vehicle raised an error. Please check error message in the vehicle. Please press X once your vehicle is unplugged.	<b><u>CHAdeMO only:</u></b> Your vehicle raised an error. Please check error message in the vehicle, unplug it then press X.
Error occurred: 0x31 Your battery's temperature is too high. Please unplug your vehicle.	<b><u>Not in CHAdeMO:</u></b> Your battery's temperature is too high. Please unplug your vehicle.
Error occurred: 0x19 Your battery's temperature is too high. Please press X once your vehicle is unplugged.	<b><u>CHAdeMO only:</u></b> Your battery's temperature is too high. Please press X once your vehicle is unplugged.
Error occurred: 0x46 Connection between screen and charger has been lost. Please unplug your vehicle.	<b><u>Not in CHAdeMO:</u></b> Connection between HMI screen and charger has been lost. Please unplug your vehicle.
Error occurred: 0x46 Connection between screen and charger has been lost. Please press X once your vehicle is unplugged.	<b><u>CHAdeMO only:</u></b> Connection between HMI screen and charger has been lost. Please press X once your vehicle is unplugged.
Error occurred: 0x-- Please unplug your vehicle.	<b><u>Not in CHAdeMO:</u></b> For all other error codes, please refer to maintenance manual.
Error occurred: 0x-- Please press X once your vehicle is unplugged.	<b><u>CHAdeMO only:</u></b> For all other error codes, please refer to maintenance manual.



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As standards, specifications, and designs change from time to time, please ask for confirmation of the information given in this publication.

