User Manual Keywatt 24 Wallbox CE





Beyond Charging

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither IES Synergy nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein. If you have any suggestions for improvements or amendments or have found errors in this publication, please notify us.

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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, wich result in personal injury if the instructions are not followed.



This is the safety alert symbol. It is used to alert you to potential personnal 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. 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 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:

- P/N: WBG3 3PN CHARGER
- P/N: WBG3 3P CHARGER
- P/N: WBG3 1PN CHARGER
- P/N: WBG3X_TRI S 3PN CHARGER
- P/N: WBG3X_TRI 3PN CHARGER
- P/N: WBG3X BI 3PN CHARGER
- P/N: WBG3X_BI 3P CHARGER
- P/N: WBG3X BI 1PN CHARGER

Related documents

Document title	Product	Reference
Installation Manual	WBG3	DIM016055-EN
Installation Manual	WBG3X	DIM016197-EN
User Manual	WBG3/G3X	DUM016055-EN
Service Manual	WBG3/G3X	DMM016055-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

NOTICE

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.
- 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 may 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.
- Make sure the AC input breaker is OFF and measures 0V after 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.
- This equipment employs parts, such as switches and relays, that tend to produce arcs or sparks and therefore, when used in a garage, locate in a room or enclosure provided for the purpose or not less than 500mm (18 inches) above the floor.

Failure to follow these instructions can result in death or serious injury

△ CAUTION

RISK OF DAMAGE TO THE TERMINAL

• Do not use this product if the cables (input or output) are frayed, have damaged insulation or any other signs of damage.



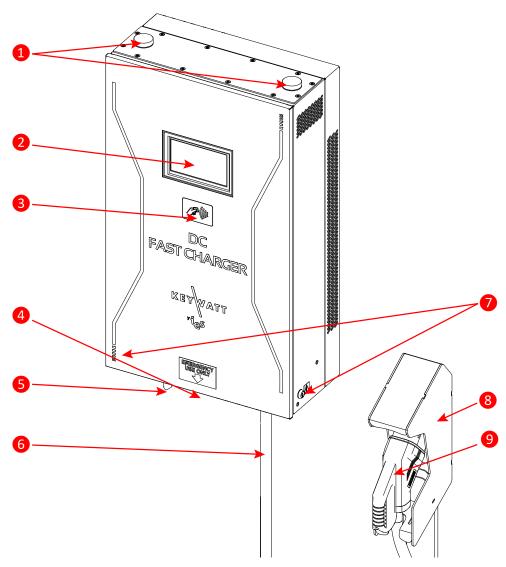
- Do not use this product if the enclosure or the Electrical Vehicle Supply Equipment (EVSE) connectors are broken, cracked, opened or shows any other indication of damage.
- Do not use a cord extension set or second cable assembly in addition to the cable assembly for the connection of the EV to the EVSE.
- This equipment is not intended for use in residential environments and may not provide adequate protection to radio reception in such environments.

Failure to follow these instructions may result in serious injury or equipment damage.



4. Overview

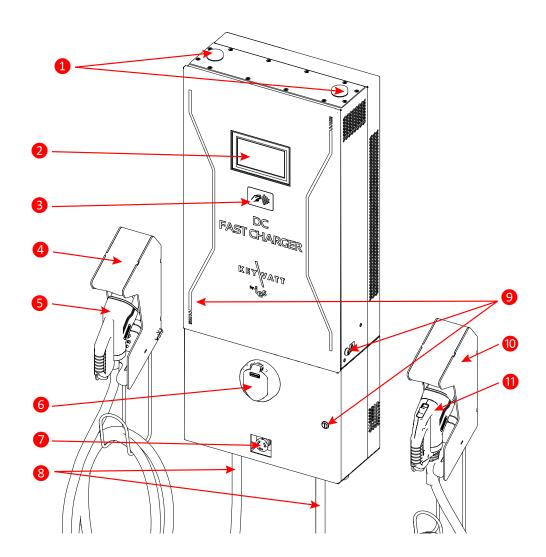
WBG3 external view



Position	Description
1	Antennas
2	7" touchscreen display
3	RFID reader
4	Emergency Stop button
5	Input cable
6	Output cable
7	Key locker
8	Connector support
9	Output DC connector

Note: May change depending on version or technical modification

WBG3X external view



Position	Description
1	Antennas
2	7" touchscreen display
3	RFID reader
4	Connector support
5	Output Combo 2 DC connector
6	AC socket outlet Type 2 S
7	Emergency Stop button
8	Output cable
9	Key locks
10	Connector support
11	Output CHAdeMO DC connector

Note: May change depending on version or technical modification



5. Specification

Main supply

The charging station can be connected to several mains supplies as detailed on following tables.

Mains supplies 3-phase $L_1/L_2/L_3 + N + PE 3x400V_{AC}$ (phase to phase)				
Mains 3-phase voltage range	V _{AC}	400 V _{AC}	± 10%	
Earthed electrical system	TT; TN			
Frequency range	f	50 Hz	± 10%	
		40-32A (mono-std)		
Nominal input current	I _{AC}	38A (bi-std)	Nom	
		70A (tri-std)		
Maximum input current		45A (mono/bi-std)	May	
Maximum input current		78A (tri-std)	Max	
Power Factor	PF	0,99	Nom	
Efficiency	η	95 %	Max	
Harmonic current @ nominal network voltage	THDi	< 13 %	Max	

Mains supplies 3- phase $L_1/L_2/L_3$ + PE $3x208-240V_{ac}$				
1 2 3				
Mains 3-phase voltage range	V_{AC}	208-240 V _{AC}	± 10%	
	TT; TN; IT			
Earthed electrical system		⚠ Warning for WBG3X: IT earthed electrical		
,		phibited for AC charg		
Frequency range	f	50 Hz	± 10%	
Nominal Input current	I _{AC}	72-63A	Nom	
Maximum Input current	I _{AC}	80A	Max	
Power Factor	PF	0,99	Nom	
Efficiency	η	95 %	Max	
Harmonic current @ nominal network voltage	THDi	< 13 %	Max	

Mains supply single-phase L + N + PE 1x220-240V _{AC}				
Mains single-phase voltage range	V _{AC}	220-240 V _{AC}	± 10%	
Earthed electrical system	TT; TN			
Frequency range	f	50 Hz	± 10%	
Nominal Input current	I _{AC}	123-112A	Nom	
Maximum Input current	I _{AC}	140A	Max	
Power Factor	PF	0,99	Nom	
Efficiency	η	95 %	Max	
Harmonic current @ nominal network voltage	THDi	< 13 %	Max	

Technical specification

Internal AC input protection				
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	 LEAKAGE	< 3,5 mA	Max	
Emergency button connection	Yes	Yes		
Overvoltage category (IEC60664-1)	III			
Insulation protection Class (IEC60664-1)	Class I			

DC Output			
COMPO 3 output voltage	V _{DC} _max	530 V _{DC}	Max
COMBO 2 output voltage	V _{DC} _min	200 V _{DC}	Min
CHAdeMO output voltage	V _{DC} _max	500 V _{DC}	Max
CHAdelvio output voitage	V _{DC} min	150 V _{DC}	Min
Output current	I _{DC} _max	65A ⁽¹⁾⁽²⁾	Max
Output current	I _{DC} _min	1,5A	Min
Max Output Power	P _{OUT}	24kW	Max
Output connector (charging station side) Permanent		nounting	
Car Blug connector	Plug #1 ⁽⁵⁾	COMBO 2 ⁽⁵⁾	
Car Plug connector	Plug #2 ⁽⁵⁾	CHAdeMO ⁽⁵⁾	
Output cable length	Meters	3,5 (5,2 in option)	-10/+0%

AC output (for WBG3X_TRI 3PN only)			
AC Output voltage	V _{AC} _nom	400 V _{AC}	± 10%
AC Output current	I _{AC} _max	32 A	Max
Max Output Power	P _{out}	22 kVA	Max
Car Plug socket	Plug #3	AC type 2 S	
Type of connection	Case "B" connection (mode3)		
Type of connection	Detachable cable		

Internal DC output protection			
Hardware and software short circuit protection	Yes		
Software and Hardware over voltage protection	adjustable	+10% max	
Over temperature protection	-	70	°C
Reverse polarity protection	Yes		
DC output Contactor	Yes (2 poles)		
Rated Current Fuse (output)	I _{FUSE}	125	А
Galvanic isolation	V _{input / output}	4800 (G3) 5200 (G3X)	V _{DC}
Max time for DC line discharge < 60V	T _{<60V}	1	S

Internal AC output protection (WBG3X only)				
Inrush current	h current 230A during 100 μs 30A during following second			
Short circuit Socket I ² t	A ² s	A ² s 75 000		
rcuit breaker for AC circuit 50A curve C				

Embedded Insulation device	
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 permanent750Kohms continuous measurement300Kohms during simultaneous switching measurement
Measurement method	Continuous and switching measurement resistor method
Measuring current Im	< 1,4mA at RF=0
Measurement range (Ran)	20Kohms300Kohms
Relative uncertainty	±15%
Line L+/L- Voltage (Un)	DC 150V530V
System leakage capacity Ce	$\leq 1 \mu F$: response value (Ran) and time (tan) are not guaranteed for capacity above $1 \mu F$
Parallelization	△ Warning: Do not connect the insulation monitor device (IMD) in parallel !! Response value (Ran) and time (tan) are not guaranteed.

Radio Frequency characteristics

The equipment module is designed to provide customers with global network coverage on the connectivity of UMTS/HSPA+, and it is also fully backward compatible with the existing EDGE and GSM/GPRS networks.

	Frequency band (MHz)		Output power (dBm)	
	Тх	Rx	Min	Max
GSM850/EGSM900 (GMSK)	880-915	925-960	5 ±5dB	33 ±2dB
GSM850/EGSM900 (8-PSK)	880-915	925-960	0 ±5dB	27 ±3dB
DCS1800/PCS1900 (GMSK)	1710-1785	1805-1880	0 ±5dB	30 ±2dB
DCS1800/PCS1900 (8-PSK)	1710-1785	1805-1880	0 ±5dB	26 ±3dB
WCDMA	B1/B2/B4-B6/B8/B19	B1/B2/B4-B6/B8/B19	<-49	24 +1/-3dB
LTE-FDD	B1-B5/B7/B8/B12/ B13/B18-B20/B25/ B26/B28	B1-B5/B7/B8/B12/ B13/B18-B20/B25/ B26/B28	<-39	23 ±2dB
LTE-TDD	B38-B41	B38-B41	<-39	23 ±2dB

RFID reader characteristics To start a charge, users must swipe a contactless RFID card across the card reader. Frequency bands Output power -5dBuA/m@3m

General & dimensions			
External dimensions (mm)	HxWxD	860 x 507 x 250 mm (G3) 1225 x 507 x 250 mm (G3X)	
Weight (without cable, or bracket)	kg	66kg (G3) 93kg (G3X)	Max
Type of installation	Wall / Pedestal mounting		
Fixation points	8 screws		
Protection type (EN60529)	IP55		

General & dimensions			
Cooling systems	Heatsink with forced air flow by fans IP5 without air filter		
Noise (1m, all direction)	Db(A) 65dbA (1m)		
Climatic & Environment constraints			
Operating temperature (with derating)	-25°C to +55°C ⁽³⁾		
Storage temperature	-25°C to +60°	С	
Relative humidity	RH	10% to 95%	
Installation altitude	Alt	2 000m	Лах
Norms & standards			
Radio Equipment Directive (RED)	2014/53/EU		
Efficient use of Radio Spectrum (RED)	ETSI EN 301 511 V12.5.1 ETSI EN 301 908-1 V11.1.1 ETSI EN 301908-2 V11.1.2 ETSI EN 301908-13 V11.1.2 ETSI EN 300 330 v2.1.1		
Electric vehicle conductive charging system Part 1: General requirement	IEC 61851-1		
Electric vehicle conductive charging system Part 22: AC Electric vehicle charging station	IEC 61851-22		
Electric vehicle conductive charging system Part 23: DC Electric vehicle charging station	IEC 61851-23		
Electric vehicle conductive charging system Part 24: Digital communication between a DC charging station and an EV for control of DC charging	IEC 61851-24		
Electromagnetic compatibility (EMC)	EN 61000-3-1 EN 61000-3-1 EN 61000-6-2 EN 61000-6-4 EN 301489 v2	-2 (for G3 only) .1 (for G3X only) .2 (for G3X only) .2 (for G3X only) .4/A1 (for G3X only) .2.2.0 (for G3X only) .7 V3.2.0:2017 (for G3X	only)
Insulation Monitor Device (IMD)	IEC 61557-1 IEC 61557-8		
RoHS		(for G3 only) for G3X only)	
Declaration of conformity CE ⁽⁴⁾	Yes		
EV Ready (for G3X only)	Compliant		

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



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

 $^{^{(3)}}$ Potential derating above 35°C.

⁽⁴⁾ CE marking affixed on the product attest the conformity of the product with applicable requirements of relevent Community harmonization legislation.

⁽⁵⁾ On Wallbox G3, you only have one Combo or CHAdeMO connector.

Compliance



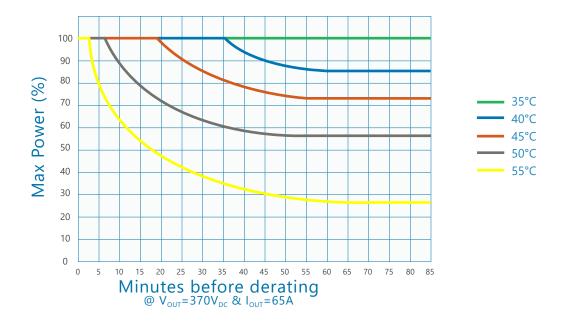






Derating

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



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.

Note: The RFID card MIFARE 1k is recommended.

- 1. A) Swipe an activated RFID card once across the card reader
 - 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 connector 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 vehicles 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:

- 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 connector. A click may be heard at the vehicle/connector
- 4. Once unlocked, remove it from the vehicle charging inlet
- 5. Return the connector 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 bellow 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 connector from the vehicle

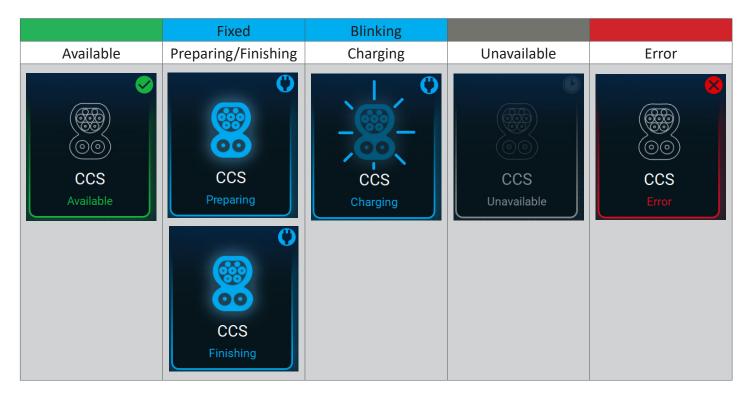
To reset after emergency stop rotate the button clockwise until it pops outward. After a self-test the display will remove the emergency stop message and will be ready for a new session.



7. Utilization

Human/Machine interface (HMI)

Color code



Note: Applicable in COMBO, CHAdeMO and AC.

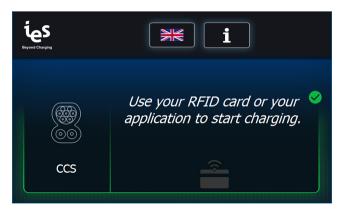
Charger states

- 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 occured

Charge selection

Depending on your configuration, the Wallbox offers up to 3 means of connection to the vehicle.

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.



Tri-Standard version

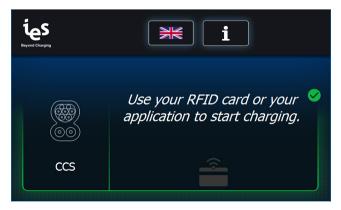


User identification

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, CHAdeMO and AC



Note: Applicable in COMBO, CHAdeMO and AC

EV connection

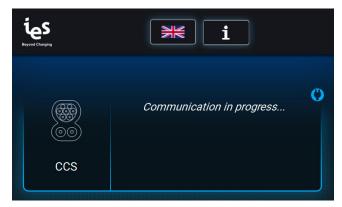
The charging station invites the user to connect the EV with the following screen:



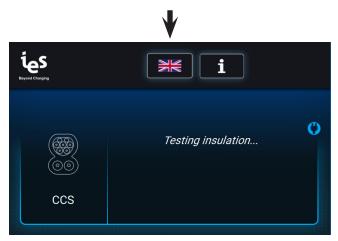
Note: Applicable in COMBO, CHAdeMO and AC

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, CHAdeMO and AC



Note: Applicable in COMBO and CHAdeMO

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EV charge

Combined Charging System (CSS) and CHAdeMO

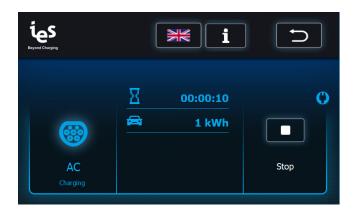
During the charge of the electrical vehicle, the charging station shows the charge informations (time since the start of charging, charged energy and percentage of charge).



Note: Applicable in COMBO and CHAdeMO

AC (for WBG3X only)

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



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 (CSS)

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.



AC (for WBG3X only)

When the AC type 2 S protocol is used, the user can unplug the vehicle once the charge is done.



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Other messages

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VBG3X only: Message displayed during the startup of the charging station if the AC powershare board loes not work. Please contact support. Charger inoperative. Backend server request charger does not accept charge. Charger inoperative. Backend server request charger inoperative. Backend server request charger inoperative.
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Charger inoperative. Backend server request charger does not accept charge Charger inoperative. Backend server request char-
er does not accept charge Charger inoperative. Backend server request char-
er does not accept charge. Unplug the vehicle.
er a e e e mar a e e e e mar e e e mar e e e mar e e e e e e e e e e e e e e e e e e e
Jser rejected by the backend server.
Charger offline.
ime out, user identified, unplug the vehicle before etrying to identify.
VBG3X only: This screen can be displayed when he user is using AC charging. The vehicle decides when to start charging.
CHAdeMO only: User identified, waiting for electrial vehicle connection.
he charge cannot be interrupted by this user who
s not recognized by the backend server.
User wants to stop the charge. He should identify imself to be able to switch off the charge and disonnect his vehicle.
Not in CHAdeMO: User not recognized by the backend server Charging terminated. Unplug the velicle.
CHAdeMO only: User not recognized by the backend server Charging terminated. Unplug the velicle.
Charging station shut down. Please contact support o restart the charging station.
Charging station is being updated. Please wait.
rror updating. Please contact support for updating he charging station.
thine Vhuller in the or in

Message	Description
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.

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.



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.	Not in CHAdeMO: 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.	<u>CHAdeMO only:</u> 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.	Not in CHAdeMO: 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.	<u>CHAdeMO only:</u> 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.	Not in CHAdeMO: 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.	<u>CHAdeMO only:</u> 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.	Not in CHAdeMO: Connector error. Please keep the connector closely leant against your vehicle when plugging, until the charge has started.

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Error	Error resolution
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.	CHAdeMO only: 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 occurred: 0x3A Your battery model is incompatible with this charger. Please unplug your vehicle.	Not in CHAdeMO: 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.	CHAdeMO only: 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.	Not in CHAdeMO: 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.	<u>CHAdeMO only:</u> 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.	Not in CHAdeMO: 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.	<u>CHAdeMO only:</u> 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.	Not in CHAdeMO: 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.	CHAdeMO only: 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.	Not in CHAdeMO: 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.	CHAdeMO only: Connection between HMI screen charger has been lost. Please press X once your vehicle is unplugged.
Error occurred: 0x Please unplug your vehicle.	Not in CHAdeMO: For all other error codes, please refer to maintenance manual.
Error occurred: 0x Please press X once your vehicle is unplugged.	CHAdeMO only: For all other error codes, please refer to maintenance manual.



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