



911.012.003

911.012.003



PORSCHE



US	Porsche Wall Charger Connect Operating and Installation Manual.....	1
FC	Porsche Wall Charger Connect Mode d'emploi et instructions d'installation.....	24
ESM	Porsche Wall Charger Connect Manual de funcionamiento e instrucciones de instalación....	49

English USA

Operating Instructions

Safety Instructions.....	3
Country-Specific Regulations	4
Qualification of Personnel.....	5
Intended Purpose	5
Key to Pictograms.....	5
Items Supplied.....	6
Operating Instructions.....	7
Vehicle Charge Ports and Vehicle Plugs.....	7
Control Unit.....	7
Getting Started	9
Web Application	10
Charging.....	11
Charging Current Limiting	11
Charging Times.....	12
Malfunctions.....	12
Cleaning	14
Disposal.....	14
Further Information	14
Data Protection Notice.....	14

Installation Instructions

Safety Instructions.....	14
Requirements and Prerequisites.....	14
Installing	17
Putting the Device into Operation.....	21
Technical Data	21
Production Information	22
Manufacturing Information	22
Index	23

Article number

911.012.003

Time of printing

09/2020

Dr. Ing. h.c. F. Porsche AG is the owner of numerous trademarks, both registered and unregistered, including without limitation the Porsche Grest®, Porsche®, Boxster®, Carrera®, Cayenne®, Cayman®, Macan®, Panamera®, Spyder®, Tiptronic®, VarioCam®, PCM®, PDK®, 911®, 718®, RS®, 4S®, 918 Spyder®, FOUR, UNCOMPROMISED®, as well as the model numbers and the distinctive shapes of the Porsche automobiles such as, the federally registered 911 and Boxster automobiles. The third party trademarks contained herein are the properties of their respective owners. All text, images, and other content in this publication are protected by copyright. No part of this publication may be reproduced in any form or by any means without prior written permission of Porsche Cars North America, Inc. Some vehicles may be shown with non-U.S. equipment. Porsche recommends seat belt usage and observance of traffic laws at all times.
© 2019 Porsche Cars North America, Inc.

Operation and installation manual
SAVE THESE INSTRUCTIONS. Always keep this manual near the charger and carry it along with the charger. Please hand it over to the new owner if you sell the charger. Due to different requirements in various countries, the information in the thumb index tabs of this manual will be different. To ensure that you are reading the thumb index tab that applies to your country, compare the article number of the charger shown in the "Technical Data" section with the article number on the identification plate on the charger. Read all the instructions before using this product.

Further instructions

The instructions for the web application can be found at <https://www.porsche.com/international/aboutporsche/e-performance/help-and-contact/>. For other languages, select the desired country version of the website.

Suggestions

Do you have any questions, suggestions or ideas regarding your vehicle or this manual?

Please contact us:
1-800-PORSCHE
customer.relations@porsche.us

Equipment

Because Porsche vehicles undergo continuous development, equipment and specifications may not be as illustrated or described in this manual. Items of equipment are sometimes optional or vary depending on the country in which the vehicle is sold. For information on retrofitting options, please contact an authorized Porsche dealer. Porsche recommends an authorized Porsche dealer, as they have trained technicians and the necessary parts and tools.

Warnings and symbols

Different types of warnings and symbols are used in these instructions.

⚠

DANGER

Serious injury or death

Failure to observe warnings in the "Danger" category will result in serious injury or death.

⚠

WARNING

Possible serious injury or death

Failure to observe warnings in the "Warning" category can result in serious injury or death.

⚠

CAUTION

Possible moderate or minor injury

Failure to observe warnings in the "Caution" category can result in moderate or minor injuries.

NOTICE

Failure to observe warnings in the "Notice" category can result in damage.

i

Information

Additional information is indicated using the word "Information".

- ✓ Prerequisites that must be met in order to use a function.
- ▶ Instructions that must be followed.
- 1. Instructions are numbered in cases where a sequence of steps must be followed.
- ▷ Indicates where you can find more information on a topic.

Operating Instructions

Safety Instructions

- ⚠ DANGER**

Electric shock, short circuit, fire, explosion

Use of a damaged or faulty charger, incorrect electrical installation, incorrect use of the charger or failure to observe the safety instructions can cause short circuits, electric shocks, explosions, fires or burns.

 - ▶ Only use accessories, such as the vehicle cable, that have been approved and supplied by Porsche.
 - ▶ Do not use a damaged and/or soiled charger. Check the cable and plug connection for damage and soiling before use.
 - ▶ Only connect the charger to properly installed and fault-free electrical installations.
 - ▶ Do not use extension cables, cable reels, multiple sockets or (travel) adapters.
 - ▶ Do not modify or repair any of the electrical components.
 - ▶ Only get experts to correct faults and carry out repairs on the charger.
- ⚠ DANGER**

Electric shock, fire

The incorrect electrical installation of the charger can cause electric shock or fire when the high-voltage battery is charged using the vehicle charge port.

 - ▶ Installation on the power grid and initial operation of the charger may only be carried out by an electrically skilled person. The electrically skilled person is fully responsible for compliance with the relevant standards and regulations. Porsche recommends that you use a certified Porsche service partner.
 - ▶ The charger should only be operated in properly earthed power supply systems. Operation in non-earthed systems (e.g. IT networks) is not possible.
 - ▶ The cross-section of the power cable for the electrical socket is defined in accordance with the wire length and the locally applicable regulations and standards.
 - ▶ To ensure uninterrupted charging, we recommend that you only use electrical terminations that are connected via a separately fused electric circuit for charging.
 - ▶ The charger is designed for use in the private and semi-public sector, e.g. on private property or in company parking lots.
 - ▶ Unauthorized persons (e.g. playing children) or animals must not have access to the charger or the vehicle during unsupervised charging.
 - ▶ Please read the safety instructions in the Installation Instructions and the Owner's Manual.

⚠ DANGER

Electric shock, fire

Incorrect handling of the plug contacts can lead to electric shock or fire.

 - ▶ Do not touch the contacts on the vehicle charge port and charger.
 - ▶ Do not insert any objects into the vehicle charge port or charger.
 - ▶ Protect plug connections against moisture, water and other liquids.

⚠ WARNING

Flammable or explosive vapors

Components of the charger can cause sparks and ignite flammable or explosive vapors.

 - ▶ To reduce the risk of explosion, particularly in garages, make sure that the control unit is located at least 19.7 in. (50 cm) above the floor during charging.
 - ▶ Do not install the charger in potentially explosive areas.

⚠ DANGER

Risk of fatal injury as a result of modifications

Conversion of the charger, e.g. from mode 3 (Wallbox mode) to mobile mode 2, can cause short circuits, electric shocks, explosions, fires or burns. Risk of fatal injury!

 - ▶ Once the charger has been installed for mode 3 (Wallbox mode) by specialist personnel, the charging equipment must not be removed or operated in mobile mode. If the charger is removed and operated in mobile mode, you will be solely responsible for all resulting consequences.

3



NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If the wall charger does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient or relocate the receiving radio or television antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment under FCC rules.

To comply with FCC RF exposure compliance requirements, the device must be installed to provide a separation distance of at least 7.87 in. (20 cm) from all persons.

Observe the following instructions and recommendations in order to ensure uninterrupted charging with the charger:

- When installing the wall box or permanent electrical connection, select the highest possible power available (adapted to the domestic electrical installation) and have it fitted and commissioned by a qualified electrician. Porsche recommends that you use a certified Porsche service partner.

- Where technically possible and legally permissible, the permanent electrical connection must be dimensioned during installation in such a way that the maximum power input can be maximized via the **Isel** rotary switch.

- Before installation, check that the necessary power for charging a vehicle can be continuously provided by the currently available domestic installation. Protect the domestic installation with an energy management system, if necessary.

- If you are unsure about the electrical domestic installation, have it checked by a qualified electrician. Porsche recommends that you use a certified Porsche service partner.

- If you intend to use the charger with a photovoltaic system, contact an authorized Porsche dealer.

- When charging the high-voltage battery via the permanent electrical connection, the electrical installation may be loaded to its maximum capacity. Porsche recommends that you have the electrical installations used for charging checked regularly by a qualified electrician. Ask a qualified electrician which inspection intervals are appropriate for your installation. Porsche recommends that you use a certified Porsche service partner.

- On delivery, the charging current is automatically limited to prevent overheating of the electrical installation. Get a qualified electrician to commission the charger and set the charging current limit as required for the domestic installation.

- Please see chapter "Charging Current Limiting" on page 11.

Country-Specific Regulations

Always take the following information into account when working on the voltage system:

- Every country has a national standard which guarantees the safe design and operation of permanent connections. The use of such equipment and systems poses a potential hazard. Users must therefore have sufficient expertise and comply with the accepted technical standards.

Permitted operating modes



Information

The charger may only be operated with a permanent connection (mode 3). Operation using a domestic or industrial electrical outlet (mode 2) is prohibited.

Further information about country-specific regulations is available from your authorized Porsche dealer. Porsche recommends an authorized Porsche dealer, as they have trained technicians and the necessary parts and tools.

Qualification of Personnel

The electrical installation may only be performed by persons with appropriate electrical/electronic knowledge and experience (electrician). These persons must be able to provide proof of the required specialist knowledge for the installation of electrical systems and their components by having passed an examination. Improper installation endangers your own life and the life of the electrical system users. With an improper installation, you risk serious property damage, e.g. due to fire. In the case of personal injury and property damage, you are personally liable, depending on the legal situation. Requirements for qualified electricians:

- Ability to choose the appropriate tool, test equipment and personal protective gear, if necessary
- Ability to evaluate the test results
- Ability to choose the electrical installation material required for ensuring the switch-off conditions
- Knowledge of the NEMA/IP protection classes
- Knowledge of how to install the electrical installation material
- Knowledge of the type of supply network (TN system, IT system and TT system) and the related connection requirements (grounding without a special grounding conductor, protective grounding, required additional measures, etc.)
- Knowledge of the general and special safety and accident prevention regulations as well as fire protection measures
- Knowledge of the electrical/electronic regulations and national regulations

Grounding Instructions

Charger **must** be grounded. If it should malfunction or break down, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This product must be connected to a grounded, metal, permanent wiring system, or an equipment-grounding conductor must be run with the circuit conductors and connected to the equipment grounding terminal or lead on the product.

Intended Purpose

Charger with integrated control and protection for mode 3 charging for vehicles with high-voltage battery that meet the generally applicable standards and directives for electric vehicles.

Key to Pictograms

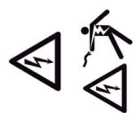
Depending on the country, various pictograms may be attached to the charger.



The charger should not be operated at altitudes of more than 13,123 ft. (4 000 m) above sea level.



Dispose of the charger in compliance with all applicable disposal regulations.



Risk of electric shock due to improper use.

	Observe the operating instructions provided, particularly the warnings and safety instructions.
	
	
	The surface of the charger can become very hot.
	
	PROTECTIVE GROUNDING TERMINAL: A terminal which must be connected to ground prior to making any other connections to the equipment.
	Indicates the type 1 plug with a voltage range of ≤ 250 VAC.
	Indicates the type 2 plug with a voltage range of ≤ 480 VAC.
2P + PE	Line, Line, GND
P + N + PE	Line, Neutral, GND

- On the charger: **SETTINGS** ⚙️ > **INFORMATION**
- In the web application: **SETTINGS** > **MAINTENANCE** > **DEVICE INFORMATION**

Porsche ID

When the charger is paired to your Porsche ID, information about the charger and the charging processes can be displayed in My Porsche and in the Porsche Connect app.

If you will no longer be using the charger, e.g. if you sell it:

1. Unpair the charger from your Porsche ID (**SETTINGS** ⚙️ > **USER PROFILES**).
2. Reset the charger to factory settings (**SETTINGS** ⚙️ > **FACTORY SETTINGS**).

Operating Instructions

In some countries, the relevant authorities must be notified when you connect electric vehicle charging equipment.

- ▶ Check obligation to notify the authorities and legal requirements for operation before connecting charging equipment.

NOTICE

- ▶ **Damage to the charger**
Only operate the Wall Charger Connect when it is mounted on the wall.
- ▶ Do not immerse or submerge the charger in water.
- ▶ Protect the charger from snow and ice.
- ▶ Handle the charger with care and protect it from potential damage due to being driven over, dropped, pulled, bent or crushed.
- ▶ The Wall Charger Connect housing may only be opened for installation by an electrician.

NOTICE

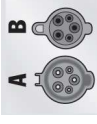
Damage to the charger
The charger must only be operated within a temperature range from -22 °F to +122 °F (-30 °C to +50 °C).

- ▶ To prevent overheating during operation, avoid continuous exposure of the charger to direct sunlight. If the charger overheats, charging will be interrupted automatically until the temperature has returned to the normal range.
- ▶ If the charger is too hot or too cold, let it return slowly to the operating temperature range and do not actively cool it down or heat it, e.g. by cooling it down with cold water or heating it with a hairdryer.

Vehicle Charge Ports and Vehicle Plugs

Different vehicle charge ports **A** and vehicle plugs **B** are available depending on country-specific vehicle equipment.

Connection and plug



Standard and designation

IEC 62196-2/
SAE-J1772-2009
Type 1 UL/IEC

Control Unit

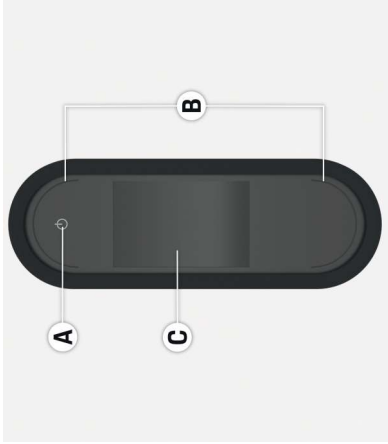


Fig. 2: Control Unit

- A** Power button
- B** Status LEDs
- C** Display

The charger can be switched on and off using the Power button **A**

The status LEDs **B** show the status of the charger. Communication with the charger takes place via the display **C**. It shows information and error messages.

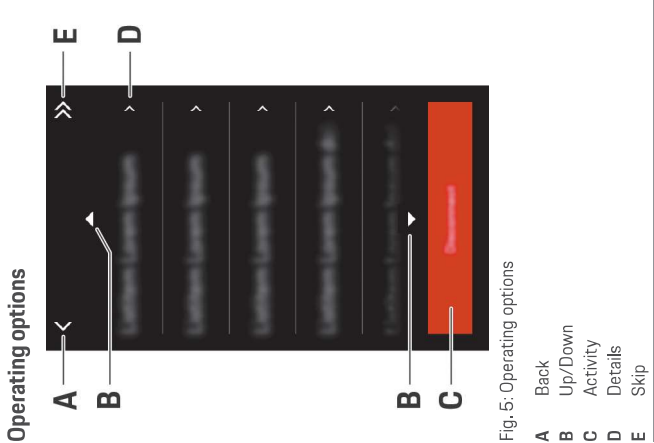


Fig. 5: Operating options

Getting Started

Configure the following settings before starting to use the charger for the first time.

Information

- Options marked **SKIP** can be skipped. A setting is not configured in this case.
- Settings can always be changed on the display (**SETTINGS**).

Language and country

- Select a language from the list. Confirm your selection.

- Select a country from the list.
- Confirm the selected language and country.

Data transmission

- Read and confirm instructions for transmitting data.

Software updates

In order to guarantee the full functionality and reliable operation of the charger, the latest software must always be installed.

- Select and confirm option for automatic software update.
On: The charger checks whether software updates are available and downloads them automatically.

The installation can then be started directly or postponed to a later time.

Off: The charger checks whether software updates are available and displays a corresponding message. The download can then be started manually.

Once the download is complete, the installation can then be started directly or postponed to a later time.

If an Internet connection with the charger cannot be established, software updates can also be downloaded manually via the web address in the **E-Performance** area at <https://www.porsche.com> and installed via the web application.

Selecting a network

Select the option for connecting to a home network. The option can be skipped with **SKIP**. No connection to a home network is established in this case. When the charger is connected to an existing home network, enhanced functions and information will be available. The connection can be established via WiFi

or a Powerline Communication network (PLC network). If there is no home network available, a hotspot can be set up on the charger.

Connection via WiFi

- Select the **WiFi** option.
- Select the home network from the list of detected WiFi networks.
- Enter and confirm the password.

Connection via PLC pairing button

- Select the **PLC PAIRING BUTTON** option.
- Start the connection setup process on the PLC modem. Confirm by pressing **OK** on the charger. Once the setup is connected, confirm with **CONNECT**.

The connection to the PLC network is established.

If a connection to the PLC network is established, the symbol will be displayed in the status bar.

Connection via PLC security code

A device on which the control software for the PLC network is installed must be used for this method.

- To establish a connection to a PLC network using the security code, select **PLC SECURITY CODE**. The security code appears on the display.

- Enter the security code in the relevant menu of the control software for the PLC network in order to integrate the charger into the PLC network.

The connection to the PLC network is established.

If a connection to the PLC network is established, the symbol will be displayed in the status bar.

User profiles (Link Porsche ID)

When the charger is paired to your Porsche ID, information about the charger and the charging processes can be displayed in My Porsche and in the Porsche Connect app.

To pair the charger with your Porsche ID:

- ▶ Call up the website specified on the display on the charger in the browser on your device and enter the user code.
 - **or** –
- ▶ Scan the QR code displayed on the charger. You can scan the QR code in the following ways:
 - Using the Porsche Connect app (My Account > Charging cables & devices > Scan QR code).
 - Using the camera on your device (iOS® 11 or higher, different for Android®).
 - Using an app for scanning QR codes.

When the charger has been paired successfully, the Setup assistant moves on to the next step.

Connecting to an energy manager

If an energy manager is available, it is possible to establish a connection to it. The energy manager then assumes control of the charging process.

- ▶ For instructions for connecting, refer to the operating instructions for the energy manager. If there is no energy manager available, the vehicle will be charged at the charging current entered on the charger (**SETTINGS** ⚙ > **ADJUST CHARGING CURRENT**).

- ▶ Please see chapter "Adjust charging current" on page 10.

Hotspot

If it is not possible to integrate into a home network, the charger can activate a hotspot, thereby establishing a connection to the web application on the charger.

- ▶ To activate a hotspot, click on **ACTIVATE HOTSPOT**. Once a hotspot has been activated, the symbol 📶 will appear in the status bar.

Adjust charging current

The maximum permitted charging current for the charger can be set here if there is no energy manager available in the home network.

The maximum value displayed is set by the electrician during installation of the Wall Charger Connect.

- ▶ Set the charging current to the maximum value available in the power grid used for the charger. Use **PLUS** and **MINUS** to do this.
- ▶ Please see chapter "Charging Current Limiting" on page 11.

Device protection

To prevent an unauthorized vehicle from being connected to the charger, a PIN prompt can be configured.

1. To activate the PIN prompt, select **ON**.
 2. Enter a 4-digit PIN and confirm.
 3. Enter the PIN again and confirm it.
- Activation of the PIN prompt is confirmed.

Finishing the setup process

- ▶ Check the settings you entered using **SUMMARY** and complete the installation.

Web Application

Further configuration options and detailed information about the previous charging processes can be displayed using a web application, which is specific to each charger.

For information on the web application, refer to the instructions at <https://www.porsche.com/international/aboutporsche/e-performance/help-and-contact/>. For other languages, select the desired country version of the website.

Information

- Depending on which browser you are using, the web application will not open immediately; instead information about the browser's security settings will be displayed first.
- Whether or not you will need to enter the network key for calling up the web application depends on the device's operating system.

Opening the web application via the hotspot

The web application can be called up using a device (PC, tablet or smartphone) via a hotspot set up by the charger.

To set up a hotspot:

- ▶ Please see chapter "Hotspot" on page 10.
- ▶ To call up the web application while a hotspot is active, enter the following IP address in the browser's address line: 192.168.0.1

Opening the web application via WiFi

The web application can be called up in the browser on a device (PC, tablet or smartphone) that is logged into the same home network as the charger.

- ▶ Enter the current IP address of the charger in the browser's address line. You will find the current IP address under **SETTINGS** ⚙ > **NETWORK** > **NETWORK INFORMATION**.

– **or** –

- ▶ Enter the host name of the charger in the browser's address line. You will find the host name in the letter containing access data.

Charging

Vehicle charge port

For information on connecting and disconnecting the vehicle cable to and from the vehicle charge port and for the charging and connection status at the vehicle charge port:

- ▷ See Owner's Manual.

A DANGER

Electric shock, fire

Risk of serious or fatal injury due to fire or electric shock.

- ▷ Always observe the specified sequence for the charging process.
- ▷ Do not disconnect the vehicle cable from the vehicle charge port during the charging process.
- ▷ End the charging process before disconnecting the vehicle cable from the vehicle charge port. Errors are shown on the display and are indicated by red status LEDs. Error message, cause and remedial measure are displayed.
- ▷ Please see chapter "Malfunctions" on page 12.

Starting charging

i Information

- Charging is controlled by the vehicle. The charging process can only be stopped at the vehicle.
- The charge status is shown on the display provided the charger is not in standby mode. In standby mode, the display can be switched on again by pressing the Power button  or the display itself. In standby mode, the device can be switched on again by pressing the Power button .
- A high-temperature switch-off feature prevents overheating while charging.

Stopping charging

1. Insert the plug into the electrical socket.
 -  Power button lights up white.
 -  Status LEDs light up white.

The display switches on.
2. Insert the vehicle plug in the vehicle charge port.
 -  Power button lights up white.
 -  Status LEDs pulsate white.

Following a successful self-test and when the connection is established, the status LEDs light up white.
3. Charging starts automatically.
 -  Power button lights up white.
 -  Status LEDs pulsate green.

After a few minutes, the display switches to standby mode.
4. The vehicle is charging.
 - ▷ For information on connecting the vehicle cable to the vehicle charge port, see the Owner's Manual.

i Information

Improper use, in the form of torsion/twisting of the vehicle cable while stretching or pulling on it, is to be avoided.

Charging Current Limiting

The maximum available charging current is determined by the **ISel** rotary switch setting and is set during installation by the qualified electrician. The charger detects the voltage and the available electric current automatically. The charging current can also be reduced by other electrical loads in the home network, e.g. by an electric heater or water heater. If you are unsure about this, contact a qualified electrician. The power to be used for charging can be set using charging current limiting (**SETTINGS**  **> ADJUST CHARGING CURRENT**). The last charging current set is saved. The charging power must never be set higher than the maximum available power of the electrical circuit used.

US
FC
ESM

If the charger is connected to an energy manager, the energy manager limits the charging current in accordance with the values set in the energy manager.

Charging Times

The charging duration can vary depending on the following factors:

- Electrical socket used (domestic electrical outlet or industrial electrical outlet)
- Country-specific power grid voltage and current
- Settings for limiting the charging current on the charger
- Fluctuations in the grid voltage
- Ambient temperature of vehicle and charger.

Charging times can be longer at temperatures at the upper and lower extremes of the permitted ambient temperature.

➤ Please see chapter "Technical Data" on page 21.

- Temperature of the high-voltage battery and control unit
- Passenger compartment precooling/heating activated
- Current-carrying capacity of the permanent connection and vehicle plug

Information

The charging power is dependent on the power grid, the type of domestic connection and the start-up of other high-usage electrical loads. It is possible that the full charging power will not be available. Further information is available from your qualified electrician. Porsche recommends an authorized Porsche dealer, as they have trained technicians and the necessary parts and tools.

Malfunctions

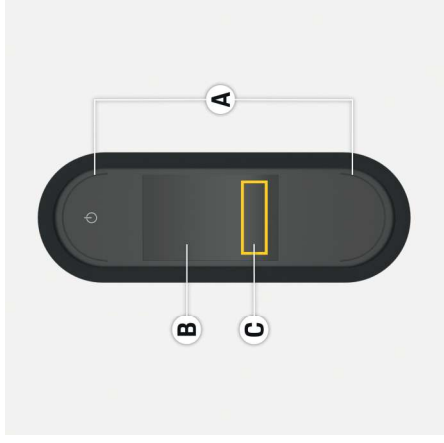


Fig. 6: Display in the event of malfunctions

- | | |
|----------|--------------------------|
| A | Status LEDs light up red |
| B | Error message and cause |
| C | Remedy |

In the event of faults or malfunctions, the charger displays a corresponding message on the display. The status LEDs and the Power button light up red. The message contains the error message.

Information about the cause and a remedial measure.

- Follow the instructions given in the remedial measure.

NOTICE

Damage to the charger

- If a fault persists or recurs, disconnect the charger from the power grid and contact a qualified electrician. Porsche recommends an authorized Porsche dealer, as they have trained technicians and the necessary parts and tools.

Operating Instructions

The following overview contains recommendations for dealing with malfunctions that restrict or prevent the vehicle from charging.

Situation	Recommended action
The display (screen, status LEDs, Power button) has stopped working completely.	▶ Disconnect the charger from the power grid and check the fuse. ▶ Have the domestic installation checked by a qualified electrician. ▶ If the error persists, have the charger replaced.
The display is blank, the status LEDs do not change color and the Power button lights up red.	▶ The charger is overheated. Disconnect the charger from the power grid and let it cool down slowly by itself. ▶ If the error persists, have the charger replaced.
Restricted operation or charging not possible (message on display).	▶ Make sure that the charger is within the permitted temperature range. Please see chapter "Technical Data" on page 21. ▶ Acknowledge any error message that appears. ▶ Start the charger again. Press the Power button for at least 10 seconds to start the charger again.
The charging current is too low (message on display).	▶ The home network is overloaded. Switch off other high-usage electrical loads.
The grid voltage is too high (message on display).	▶ Have the domestic installation checked by a qualified electrician.
The charger is not within the permitted temperature range (message on display).	▶ Device temperature switch-off: Avoid direct sunlight and let the charger cool down slowly by itself. ▶ Low-temperature switch-off: Let the charger heat up in a warm environment before using it. ▶ Device temperature sensor faulty: Have the charger replaced.
The circuit breaker in the domestic installation was triggered (message on display).	▶ Reduce the charging current in the settings on the charger. ▶ Acknowledge any error message that appears.

US
FC
ESM

Installation Instructions		
US	Cleaning Check the charger for damage and soiling at regular intervals and clean it if necessary. ⚠ DANGER Electric shock, fire Risk of serious or fatal injury due to fire or electric shock. ▶ Never immerse the charger or plugs in water or spray them directly with water (e.g. high-pressure cleaning equipment or garden hoses). ▶ Only clean the charger when the control unit has been disconnected from the vehicle. Use a dry cloth for cleaning.	
FC		
ESM		
Installation Instructions Safety Instructions Pay particular attention to the safety instructions in this manual. ▶ Please see chapter "Operating Instructions" on page 3. Requirements and Prerequisites Before the Wall Charger Connect is installed, the following requirements must be complied with and checked. General requirements The following are the minimum requirements that must be fulfilled for the connection of the Wall Charger Connect: – The Wall Charger Connect may only be installed by a qualified technician (electrician). – Calculate the maximum electrical load of the installation in order to determine the maximum current of the wall box. – Ensure that the voltage drop across the supply cable is minimal. – Only use copper conductors to connect the Wall Charger Connect. – Ensure that all approvals for connection of the Wall Charger Connect have been granted and that the installation is being/has been approved by a qualified electrician. – Only use connectors and cables that comply with the local regulations so that the Wall Charger Connect can be operated constantly at 80 A. – Use fuses for the electrical connection. Install the fuse and residual current device in accordance with your charging current.		
Data Protection Notice To ensure that your Porsche charging equipment can communicate properly and is always up-to-date, the charging equipment will send the following equipment-specific data to Porsche in encrypted form at regular intervals and process this data there: device ID, brand, generation, device type and software version. The following conditions also apply to the Wall Charger Connect: In addition, the device transfers encrypted diagnostic data to Porsche following customer interaction. The following data is included here: device identification, production date, manufacturer information, country specification, performance class, software version, event memory entries including status information in the event of errors. The transmitted diagnostic data is used only for support and analysis purposes, and for product enhancement. If you would also like to have the option of using other Porsche Connect services for the charging equipment, you must pair your charging equipment to your Porsche ID account, which is available from the Porsche Connect distributor in selected markets. While using Porsche Connect services, the following personal data and other device-specific data required for the provision of the services is sent to Porsche and processed there: customer ID, statistics, charging history information, status, connection status and time stamp for when communication was last established. You will find more detailed information on the general terms and conditions and the privacy policy at www.porsche.com/connect-store. The regular transmission of data for your charging equipment can incur additional costs with your Internet supplier. The data you have saved at Porsche can be irrevocably deleted using My Porsche. Some of the Porsche Connect Services for the Porsche charging equipment are not available in all countries due to technical or legal restrictions.		
Disposal Electrical/electronic devices can be handed in at a collection point or waste management facility. ▶ Do not throw electrical/electronic devices in with household waste. ▶ Dispose of electrical/electronic devices in accordance with the applicable environmental protection regulations. ▶ If you have questions about disposal, contact an authorized Porsche dealer.		
Further Information Further information on the charger and the web application is available under "E-Performance" at the following web address: https://www.porsche.com		

- Have the local requirements clarified by a qualified electrician and observe the applicable conditions.

Supported network configurations

⚠ WARNING

Electric shock, short circuit, fire

Improper connection in a non-compatible network configuration can cause short circuits, electric shocks, explosions, fires or burns.

- ▶ The Wall Charger Connect is a 1-phase device. Therefore you should not connect to a three-phase source.
- ▶ Before the Wall Charger Connect is connected, check which network configuration is available on site. The Wall Charger Connect may only be used with the network configurations listed here in the corresponding arrangement. If you are unsure about the network configuration, consult a qualified electrician.
- ▶ The two phases used may only have a maximum voltage of 120 V to neutral. Neutral may only be connected to ground at **one** place, normally in the fuse box.
- ▶ In total, only three cables are connected to the Wall Charger Connect. Ensure that the cables in your distribution box are correctly connected and labelled.
- ▶ Always ensure that neutral is connected to ground in the installation. Only in this way is the reliable operation of the Wall Charger Connect guaranteed. If no ground is available in the installation, a grounding stake must be installed.

The Wall Charger Connect can be integrated in the following network configurations:

Single phase 120 V

Connection of the Wall Charger Connect between L1 and N.

The maximum power of this configuration is 9.6 kW.

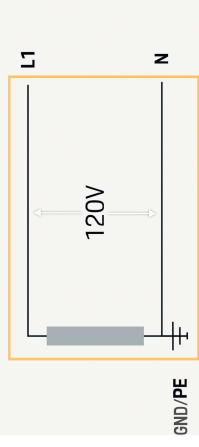


Fig. 7: Network configuration, single phase 120 V two-wire grid variant with earthed N-line and $I_{max} = 80\text{ A}$

Split phase 240 V

Connection of the Wall Charger Connect between L1 and L2.

The maximum charging power here is 19.2 kW.

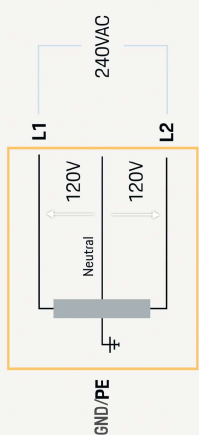


Fig. 8: Network configuration, split phase 240 V (phase angle 180°, network frequency 60 Hz)

Wye 208 V

Configuration for connecting the Wall Charger Connect:

- L1 – L2
- L1 – L3
- L2 – L3

Ensure that the two phases used have a maximum voltage of 120 V to ground.

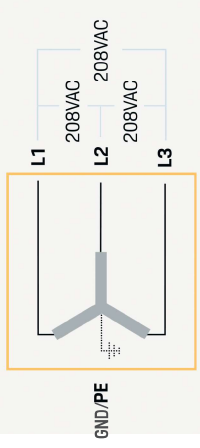


Fig. 9: Network configuration, split wye 208 V (phase angle 120° each, network frequency 60 Hz)

Delta network (Delta High Leg)

For delta connections, one strand must have a center tap. Only the two phases adjacent to the center tap may be used. The two phases used must each measure 120 V to the neutral wire.

In the following example only these configurations are permitted:

- L1 – L2
- L1 – N
- L2 – N

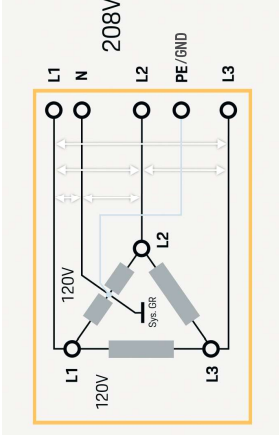


Fig. 10: Network configuration Delta High Leg (example)

i Information

In this configuration, the Wall Charger Connect may **neither be connected to L1 – L3 nor L2 – L3.**

Installation Instructions

US

FC

ESM

Determining the fuse

Determine which fuse can be provided as a maximum in your distribution box.

The Wall Charger Connect has an internal **ISel** rotary switch, with which the maximum current can be limited. The table shows the required fuse and the corresponding setting of the rotary switch.

Switch position	Fuse to be used
F	100 A
E	80 A
D	60 A
C	50 A
B	40 A
A	30 A
9	25 A
8	20 A
7	15 A
6	15 A

If the Wall Charger Connect is to be operated in a mode above 60 A, an external on/off switch must be installed in the supply cable. This switch must be fitted at an easily accessible place. As a minimum requirement, the Off switch position must be lockable.

▷ Please see chapter "Setting the maximum current (ISel)" on page 19.

Selecting the installation location



Electric shock, fire

Improper use of the charger or non-compliance with the safety instructions can cause short circuits, electric shocks, explosions, fires or burns.

- ▶ Do not install the Wall Charger Connect in potentially explosive atmospheres.
- ▶ Before installing the Wall Charger Connect, make sure that there are no electric wires in the area in which the mounting holes are to be drilled.
- ▶ To reduce the risk of explosion, particularly in garages, make sure that the control unit is at least 19.7 in. (50 cm) above the floor during charging.
- ▶ Observe the locally applicable electrical installation regulations, fire protection measures, accident prevention regulations and escape routes.

The Wall Charger Connect is designed for installation indoors and outdoors. The following criteria must be considered when selecting a suitable installation location:

- If possible, install the connection and the Wall Charger Connect in a covered area away from direct sunlight and rain (e.g. in a garage). Direct sunlight can lead to a reduced charging power or cause the charging process to be switched off.
- Do not install the Wall Charger Connect under hanging objects.
- Do not install the Wall Charger Connect in stables, livestock buildings or locations where ammonia gases occur. Also, do not operate the charger in these locations.
- Install the Wall Charger Connect on a smooth surface.

- The Wall Charger Connect is designed for installation on walls. In order to ensure secure fastening, check the condition of the wall before installation. Make sure that the wall on which the Wall Charger Connect is to be installed is sufficiently stable to hold 88 lbs (40 kg) in weight.
- Install the Wall Charger Connect as close as possible to the preferred parking position for the vehicle. Take the orientation of the vehicle into account.
- Install the Wall Charger Connect so that it is not near pathways and the cables do not cross any pathways.
- Please note: When charging with high currents, the Wall Charger Connect can heat up. Make sure that the Wall Charger Connect is installed in a well-ventilated place.
- The Wall Charger Connect has a charging cable measuring 14.8 feet (4.5 m). Make sure that you can reach the charging socket of your vehicle without putting tension on the cable.
- Make sure that the Wall Charger Connect is installed such that the parking position of the charging plug is between 2 feet and 4 feet (60 cm and 120 cm) above the ground.

Cable accesses and electrical supply

The Wall Charger Connect is designed for installation with cable conduits. Access to the Wall Charger Connect is possible from above or below.

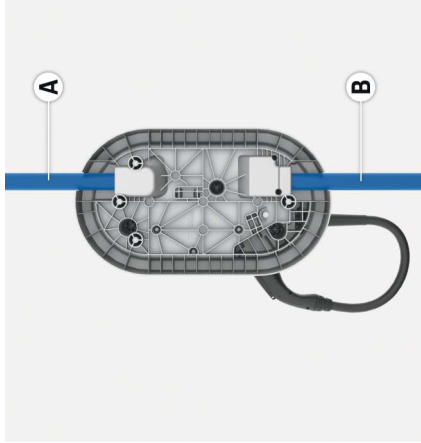


Fig. 11: Upper and lower cable access (rear view of the Wall Charger Connect, cable conduits are marked in blue)

The following criteria must be observed when selecting and installing cable accesses:

- The Wall Charger Connect can accommodate cable conduits between ¾ inch and 1 ¼ inch.
- The cable conduits used must be metal, and flame-retardant.
- Always use sealed cable conduits so that a degree of protection of 3P can be ensured.
- Always use a UL-certified cable conduit system.
- Metallic cable conduits are not grounded through the Wall Charger Connect. Conduit grounding must be ensured by a qualified electrician.
- The Wall Charger Connect is designed for connection cables from AWG 0 to AWG 4.

Installing

Unpacking

- ▶ Remove the contents from the package and check that all parts are present and undamaged.

Installing the cable conduit access

⚠ DANGER Electric shock, fire

Incorrectly installed connections can cause electric shock or fire when the high-voltage battery is charged using the vehicle charge port.

- ▶ Switch off the supply voltage and make sure that the voltage is off before installation works are performed.
- ▶ Observe the locally applicable electrical installation regulations, fire protection measures, accident prevention regulations and escape routes.

Information

The outer shell is only a cosmetic cover. Do not screw any cable conduit fittings to it. The Wall Charger Connect must be opened internally for installation works.

Information

Ensure when drilling that no shavings fall into the interior of the Wall Charger Connect.

- ▶ If shavings do fall into the interior, remove these before continuing with the installation.

1. Lay the supply cable to the place of installation of the Wall Charger Connect.
2. Install a suitable fuse and use a fire-retardant cable conduit system.

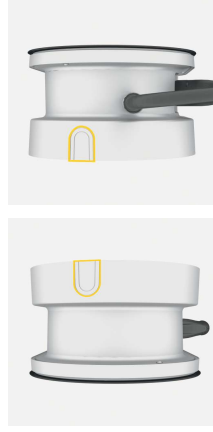
Installation Instructions

US

FC

ESM

- 3 Use a saw or a sharp knife to make the breakthrough for the cable conduit.
The outer cover of the Wall Charger Connect has markings at the top and bottom for 1 ¼ and ¾ inch cable conduits.



Breakthrough area at top

Breakthrough area at bottom

- 4 In the breakthrough area, the opening for the cable conduit fitting can be cut out using a holesaw.
The flat area has a point in the middle to centre the holesaw.
Use a holesaw that has the same diameter as the cable conduit to be used.



Fig. 12: Centering to position the holesaw

- 5 Install the cable conduit fitting in the Wall Charger Connect.
Make sure that the cable conduit is watertight when installed.
- 6 Guide the cable through the cable conduit into the interior of the Wall Charger Connect.
- 7 Next seal the opening with duct seal.
When doing so make sure that the cable conduit is completely sealed with the duct seal.
Only use UL-certified duct seal of category R 14721.

Wall installation

The Wall Charger Connect has four screw connections in total for installation on the wall.



Fig. 13: Wall fastening openings on the Wall Charger Connect

The following points must be observed when installing on a wall:

- The basic construction of the wall must be such that it can bear the weight of the fitted Wall Charger Connect plus an additional 60 lbs (27 kg).

- The following fastening points must be used when installing on a wall:
 - Solid wall: Use all four fastening points to make the screw connection.
 - Dividing wall/partition wall: Use the centre fastening points at top and bottom to make the screw connection.
 - Use wall plugs to suit the wall.
 - M8 flat screws are to be used for the screw connection.
 - To insert the screws, the bosses must be drilled with an 8 mm drill bit.
 - Only the screw bosses to be used may be drilled.
 - To seal the screws, use the sealing washers supplied.
 - To mark the drill holes on the wall, use the drill template supplied.

Connecting the cable

⚠ DANGER

Electric shock, fire

Incorrectly installed connections can cause electric shock or fire when the high-voltage battery is charged using the vehicle charge port.

- ▶ Switch off the supply voltage and make sure that the voltage is off before installation works are performed.
- ▶ Before the Wall Charger Connect is connected, check which network configuration is available on site. The Wall Charger Connect may only be used with the network configurations listed here in the corresponding arrangements. If you are unsure about the network configuration, consult a qualified electrician.
- ▶ Observe the locally applicable electrical installation regulations, fire protection measures, accident prevention regulations and escape routes.

- ✓ The connection cables used have the correct cable diameter: terminals for L1 and L2/N cables are designed for AWG 0 to AWG 4. Terminal for ground is designed for cables up to AWG 6.
- ✓ Three cables are required for connection.
1. Introduce the cables into the Wall Charger Connect. Observe the minimum bending radii of the cables.
2. Connect L1 (1) and L2/N (2) to the large black terminal block.
3. Tighten the screws of the terminal block with a torque of 3 ftlb. (4 Nm).
4. Connect the ground (3) to the small terminal block. Tighten the screw of the terminal block with a torque of 1.5 ftlb. (2 Nm).

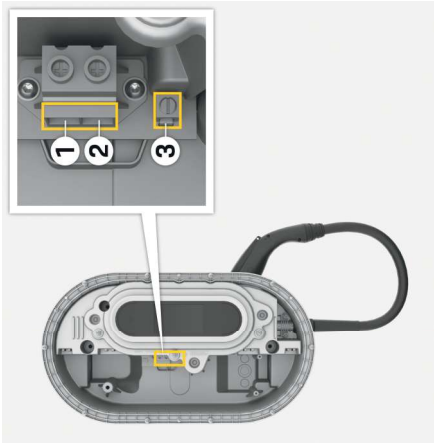


Fig. 14: Cable connection points

Setting the maximum current and the network configuration

⚠ DANGER

Electric shock

Changes to the settings are not evaluated by the device when it is switched on. There is also the risk of receiving an electric shock.

- ▶ Switch off the supply voltage and make sure that the voltage is off before installation works are performed.
- ▶ Before the Wall Charger Connect is connected, check which network configuration is available on site. The Wall Charger Connect may only be used with the network configurations listed here in the corresponding arrangements. If you are unsure about the network configuration, consult a qualified electrician.
- ▶ The fuse for the device must be switched off while the settings are made for the network configuration and maximum current.

The maximum current and the network configuration are each set via a separate switch.

US
FC
ESM

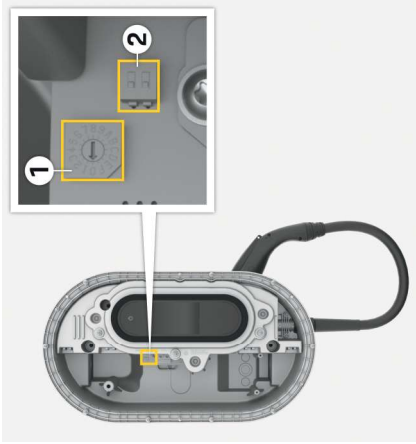


Fig. 15: Rotary and DIP switch

- 1 **I Sel** rotary switch (I Selection = Pre-selection of maximum current)
- 2 **Net** DIP switch (Network = Selection of power supply network configuration)

Setting the maximum current (I Sel)

The maximum current of the Wall Charger Connect can be limited via the **I Sel** rotary switch. This is installed next to the terminals.

- ▶ Use a small screwdriver to set the maximum current.

Switch position	Current value
F	80
E	63
D	48
C	40
B	32
A	24
9	20

Installation Instructions

US
FC
ESM

Switch position	Current value
8	16
7	12
6	10
0, 1, 2, 3, 4, 5	not assigned

Setting the network configuration (Net)
To set the network configuration, there are two DIP switches next to the terminals.

- Setting the network configuration using the DIP switches.

The following overview contains the settings of the DIP switches and the corresponding network configuration.

Switch position	DIP switch Net 1	DIP switch Net 2	Network configuration	Details
	OFF	OFF	120 V single phase	
	ON	OFF	240 V split phase ¹⁾	
	OFF	ON	Wye 208 V	Two of the three connected phases are used
	ON	ON	not assigned	Switch combinations that are not permitted

1) For connection variant Delta High Leg, the switch should be set as follows: OFF/OFF (single phase) for connection to L1 - N and L2 - N, and ON/OFF (split phase) for connection to L1 - L2.

Closing the cover

Before switching on the Wall Charger Connect, the cover must be secured using the enclosed screws.

- ✓ Use Torx TX 25 screws.
- ▶ Tighten the 13 screws to secure the cover with a tightening torque of 3.3 ftlb. (4.5 Nm).



Fig. 16: Screw points of the cover

Attaching the decorative front panel

The decorative front panel is secured via four screws. The screwholes are in the recess for winding the cable (not visible from the front).

- ▶ Position the decorative front panel on the device and fix with the four screws (tightening torque 3.0 ftlb. (4 Nm)).
To do this, use a Torx TX 25 screwdriver with a short shaft.



Fig. 17: Screw attachment points in the recess for winding the cable (rear view of the Wall Charger Connect)

Putting the Device into Operation

- ▶ Switch on the charger by pressing the Power button.
In the display, the control panel for the further setup of the device appears.
- △ Please see chapter "Operating Instructions" on page 7.

Technical Data

US		FC		ESM	
Electrical data		PWCCU192A			
Power		9.6 kW/19.2 kW			
Rated current		40 A/80 A			
Rated voltage		120/208-240 V AC, 120 V to ground			
Phases		1/2			
Power supply frequency		50 Hz/60 Hz			
Overvoltage category (IEC 60664)		II			
Integrated residual current device		Type A (AC: 20 mA) + DC: 56 mA			
Protection class		I			
Degree of protection		Enclosure 3R (IP55)			
Transmission frequency bands		2.4 GHz, 5 GHz			
Transmission power		20 dBm			
Mechanical data					
Weight		29 lbs. (13 kg)			
Vehicle cable length		14.8 ft (4.5 m)			
		24.7 ft (7.5 m)			
Ambient and storage conditions					
Ambient temperature		−22 °F to +122 °F (−30 °C to +50 °C)			
Humidity		5%–95% non-condensing			
Elevation		max. 13,123 ft. (4 000 m) above sea level			

A			
Access data	6		
Adjust charging current	10		
Article number of the charger	21		
Article number of the instructions	2		
C			
Charger			
Adjust charging current	10		
Connect Energy Manager	10		
Device protection	10		
Hotspot	10		
Selecting a network	9		
Setting language and country	9		
Software updates	9		
Charger overview	6		
Charging	11		
Charging current limiting	11		
Charging times	12		
Pausing	11		
Starting	11		
Stopping	11		
Vehicle charge port	11		
Charging current limiting	11		
Cleaning	14		
Control unit	7		
Country-specific regulations	4		
D			
Data protection notice	14		
Date of manufacture	22		
Declaration of conformity	22		
Display	8		
Menu bar	8		
Operating options	9		
Status bar	8		
Disposal	14		
F			
Further information	14		
G			
Getting started	9		
I			
Installation instructions	14		
Installation materials required	17		
Installing			
Attaching the decorative front panel	21		
Cable accesses and electrical supply	17		
Closing the cover	21		
Connecting the cable	18		
Determining the fuse	16		
Installing the cable conduit access	17		
Requirements and prerequisites	14		
Selecting the installation location	16		
Setting the maximum current	19		
Setting the network configuration	19		
Supported network configurations	15		
Unpacking	17		
Wall installation	18		
Intended purpose	5		
Items supplied	6		
K			
Key to pictograms	5		
L			
Link Porsche ID	9		
Lost access data	6		
M			
Malfunctions	12		
Manufacturer	22		
Manufacturing information	22		
Menu bar	8		
O			
Operating instructions	7		
Operating options	9		
P			
Password for web application	6		
Permitted operating modes	4		
PIN	6		
Porsche ID	7		
PUK	6		
Q			
Qualification of personnel	5		
S			
Safety instructions	3		
Selling the charger	7		
Serial number	22		
Serial number of the charger	6		
Status bar	8		
Supported network configurations			
Delta connection	15		
Single phase 120V	15		
Split phase 240V	15		
Wye 208V	15		
T			
Technical data	14, 21		
Ambient and storage conditions	21		
Electrical data	21		
Mechanical data	21		
Tools required	17		
V			
Vehicle charge port	11		
Vehicle charge Ports and vehicle plugs	7		
W			
Web Application			
Hotspot	10		
WiFi	10		
Web application	10		