

Home Energy Manager

Good to know – Owner's Manual



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70435 Stuttgart

Germany

Operating instructions

Keep these operating instructions and hand them over to the new owner when you sell your 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.

Suggestions

Do you have any questions, suggestions or ideas regarding your vehicle or these instructions?

Please write to us:

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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.

Owing to the different legal requirements in individual countries, the equipment in your vehicle may vary from that described in this Owner's Manual. If your Porsche is fitted with any equipment not described in this manual, your authorized Porsche dealer will be glad to provide information regarding correct operation and care of the items concerned.

About this Owner's Manual

Warning notes and symbols

Different types of warning notes and symbols are used in this Owner's Manual.



Serious injury or death

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



Possible serious injury or death

Failure to observe warning notes in the "Warning" category may result in serious injury or death.



Possible moderate or slight injury

Failure to observe warning notes in the "Caution" category may result in moderate or slight injury.

NOTE

Vehicle damage possible

Failure to observe warning notes in the "Notice" category can result in damage to the vehicle.



Information

Additional information is provided under "Information".

- ✓ Prerequisites that must be fulfilled 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.

2. Instructions that must be followed on the center display.

▶ Indicates where you can find more information on a topic.

More Information

You can access the comprehensive Owner's Manual at the following web address:

<https://tinyurl.com/porsche-e-help>



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To the Operating instructions

Key to pictograms

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



Dispose of the energy manager in compliance with all applicable disposal regulations.



Risk of electric shock due to improper use.



Observe the operating and installation instructions provided, particularly the warnings and safety instructions.



Observe all the warnings set out in the instructions and on the energy manager.

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.

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 re-

quired for the provision of the services is sent to Porsche and processed there: customer ID, statistics, device status, connection status and time stamp of 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.

Product information

The Home Energy Manager functions as a so-called energy management system in conjunction with Porsche charging equipment, which supports this function.

The Energy Manager individually measures and evaluates the available power and the respective power consumption. The Energy Manager communicates with the Porsche charging equipment via an interface. The Energy Manager informs the charging equipment about the energy costs and how much power can be made available to the vehicle for charging.

During the charging process, the Energy Manager updates the maximum available charging current in real time based on the current data.

The electrician sets up the Energy Manager for you using a Web Application and sets all the required values there. This protects the existing electrical installation from overload and enables cost-effective

charging of the vehicle. Cost-optimized charging is only possible if different electricity tariffs/prices and/or an existing photovoltaic system are used.

Transmission between the Energy Manager and the charger takes place via Ethernet, PLC network (Powerline Communication network) or WiFi using the EE-Bus protocol.

It is recommended that the Energy Manager be connected to the home network via Ethernet. If no PLC modem is available in the home network, the Energy Manager must be configured as a PLC DHCP Server.

- ▶ Follow the installation instructions for the Home Energy Manager.
- ▶ For information on setting up and using the Home Energy Manager, refer to: <https://tinyurl.com/porsche-e-help>
For other languages, select the desired country version of the website.

More Information

- ▶ Further information on the Home Energy Manager and the Web Application is available at the following web address: <https://tinyurl.com/porsche-e-help>
For other languages, select the desired country version of the website.

Safety Safety principles

 **DANGER**

Risk of fatal injury due to electrical voltage!

Potentially fatal injuries as a result of electric shock and/or burns are possible!

- ▶ Always ensure that the system is de-energized during all work and that it is secured against being accidentally switched on.
 - ▶ Under no circumstances should you open the housing of the energy manager.
-

Includes



Fig. 1: Includes

- A** Energy Manager
- B** External power supply unit for power supply
- E** Access data letter

i Information

For more information on scope of supply and installation, please refer to the

- ▶ Home Energy Manager installation instructions

Access data

Keep the access data letter that you received with your device at delivery. If the initial access data letter is lost, please contact your Porsche Partner.

The data contained in this letter is explained here:

Serial Number:

Serial number. If contacting customer service or your Porsche partner, specify the serial number.

SSID:

WiFi network name of the energy manager displayed on your end device (in hotspot mode)

WiFi PSK:

WiFi password, network key

PLC DPW/DAK:

PLC security code for pairing the energy manager with a PLC network

IP Address:

IP address for calling the Web Application via the browser on the end device (in hotspot mode)

Hostname:

Host name for calling the Web Application via the device's browser. The end device and energy manager must be in the same network.

Password Home User:

Initial password for Web Application home users

Password Tech User:

Initial password for Web Application Customer Service

EEBus Name:

Name of the energy manager displayed during pairing

EEBus SKI:

Identification number (SKI) of the energy manager displayed during pairing

WiFi CLIENT MAC, WiFi AP MAC, ETH0 MAC, ETH1 MAC, PLC MAC, PLC MODEM MAC:



MAC addresses: If the home network is equipped with a MAC address lock, allow these MAC addresses if necessary.

Password of the Web Application

The password is used to log in to the Web Application.

- ▶ If the initial password is lost, please contact your authorized Porsche dealer.

If a user-defined password is lost, the passwords of the Web Application can be reset to factory settings and thus reactivate the initial password.




- ▶ To reset all passwords, simultaneously press the Reset  and CTRL  buttons on the Energy Manager for 5 to 10 seconds.




Overview




Displays and controls






Fig. 2: Displays and controls

| Displays | Description |
|--|---|
|  On/Off status | LED lights up green: Energy Manager is ready for operation. |
|  Internet status | LED lights up green: Internet connection established |
|  WiFi status | LED flashes blue: Hotspot mode – no client connected LED lights up blue: Hotspot mode, at least one client connected |

| Displays | Description |
|---|---|
| | LED flashes green: Client mode, no WiFi connection available LED lights up green: Client mode, WiFi connection available LED lights up or flashes blue: Parallel operation in client mode is possible. LED flashes yellow: WiFi connection setup via WPS |
|  Powerline Communication (PLC) network status | LED flashes green: Searching for PLC network connection. LED lights up green: PLC network connection established. LED flashes blue: Activating DHCP. LED lights up blue: DHCP (only for PLC) is active and there is a PLC network connection. |
|  Ethernet status | LED lights up green: Network connection established. |
| 10101 RS485/ CAN status | On: LED lights up green during communication (currently not assigned). |
|  Error status | LED flashes or lights up yellow: Error present LED lights up red: Functions restricted |

| Controls | Description |
|--|---|
|  WPS button | ▶ To establish a WiFi connection using the WPS function, briefly press the WPS button (only network connection as client possible). |
|  WiFi button (hotspot) | ▶ To activate WiFi, press the WiFi button briefly. ▶ To deactivate WiFi, press the WiFi button for more than 1 second. |
|  PLC pairing button | ▶ To activate the PLC connection, briefly press the PLC pairing button. ▶ To activate the Energy Manager as a DHCP Server (only for PLC connections), press the PLC pairing button for more than 10 seconds. ▶ To pair a PLC with a client, briefly press the PLC pairing button again. |

| Controls | Description |
|---|---|
|  Reset button | <ul style="list-style-type: none"> ▶ To restart the device, press the Reset button for less than 5 seconds. |
|  CTRL button | <ul style="list-style-type: none"> ▶ To reset the passwords, press the Reset and CTRL buttons for between 5 and 10 seconds. ▶ To reset the device to factory settings, press the Reset and CTRL buttons for more than 10 seconds. All current settings will be overwritten. |
|  USB connection | USB connection |

- ▶ For information on network connection options, please refer to the Porsche Home Energy Manager installation instructions on the Porsche website at the following address:
<https://tinyurl.com/porsche-e-help>

Operation

Operation by the home user

The Web Application offers extensive configuration options. Consult the electrician who is installing the system and follow the instructions provided in the Web Application.

The following steps should already have been performed by an electrician so that the Web Application can be used properly:

- ✓ The first installation of the Web Application was performed with the necessary settings in the installation assistant.
 - ✓ The home setup was carried out, including information on the power grid, mains phases, current converters and power consumers.
- ▶ Contact your electrician if these steps have not been carried out or have not been fully performed.

Calling up the Web Application

Requirements for calling up the Web Application

For initial login to the Web Application, the following information should be available:

- Access data letter for logging into the Web Application
- Access data for your home network
- IP address or host name of the Energy Manager

The following browsers are supported by the Web Application:

- Google Chrome from version 57 (recommended)
- Mozilla Firefox from version 52 (recommended)

- Microsoft Internet Explorer from version 11
- Microsoft Edge (recommended)
- Apple Safari from version 10

Connecting to the Energy Manager

The Energy Manager can be integrated into your existing home network (WiFi, Powerline Communication, Ethernet) during setup. The IP address assigned by the Web Application can then be accessed.

If there is no integration in a home network, the hotspot of the Energy Manager can alternatively be used. The WPS function can also be used, which pairs the Energy Manager with the existing home network without entering a password, e. g. with a network router.

A direct connection to the router via an Ethernet cable is recommended, alternatively a PLC pairing with a PLC modem.

For information on establishing network connections, refer to the

- ▶ Home Energy Manager installation instructions.

Opening the Web Application via an existing network connection

- ✓ The end device and Energy Manager are in the same network (WiFi, PLC or Ethernet).

1. Open the browser.
2. Enter the IP address assigned during configuration into the browser address bar.

– or –

Enter the host name of the Energy Manager into the browser address bar.

Note: Some routers allow for access using the host name.

Calling up the Web Application via a hotspot

The Energy Manager offers a wireless access point (hotspot), which is protected by a password and requires a manual login. A WiFi-enabled end device can connect to the hotspot and access the Web Application of the Energy Manager. The Web Application can be integrated into the home network at any time.

For information on establishing a hotspot connection, see the

- ▶ Home Energy Manager installation instructions.

Calling up the Web Application via WiFi (WPS function)

The Energy Manager can be paired with an existing home network (e. g. network router) via the WPS function without entering a password.

For information on using the WPS function, refer to the

- ▶ Home Energy Manager installation instructions.

Forwarding to the Web Application

Information

Depending on the browser you are using, the Web Application is not opened immediately, but a message indicating the browser's security settings is displayed first.

1. Select **Advanced** in the warning message displayed in the browser.
2. In the following dialog window, select **Add exception**.
 - ➔ The SSL certificate is confirmed and the Web Application is opened.

Log in to the Web Application

Two users are available for logging into the Web Application: **Home user** and **Customer support**.

The **Customer support** user is intended for the electrician who sets up the Energy Manager.

The following steps should already have been performed by an electrician so that the Web Application can be used properly:

- ✓ Initial installation with the necessary settings for the Web Application.

Logging into the Web Application for home application is performed with the user **Home user**. Not all configuration settings of the Energy Manager are available to the home user. This user can view the settings authorized by the Customer Support, but cannot edit them.

Logging into the Web Application

- ✓ Access data is available.

 1. Select the user **Home user**.
 2. Enter a password (identified as **Password Home User** in the access data letter).

You can access the comprehensive Owner's Manual at the following web address:

<https://tinyurl.com/porsche-e-help>



Operating the Web Application

Configuration settings and detailed information on energy management can be displayed using the Web Application.

i Information

Legal notices and privacy policy with information on third-party content and licenses can be called up from the Web Application at any time using the corresponding link.

i Information

After 25 minutes of inactivity, the user is automatically logged out of the Web Application.

Overview



Fig. 3: Overview of the Web Application

A Power sources

Displays available power sources, e. g. the power grid or photovoltaic system and their provision of electrical power.

Power grid: Indicates the current power used by the power grid at the place of use.

Photovoltaic system (if available and configured): indicates the current power generated by the photovoltaic system (or other in-house energy generators).

B Current flow

The flow of electrical power from the power sources to the place of use is shown schematically (e. g. the flow from the power grid to the place of use, flow of the photovoltaic system to the power grid and to the place of use).

C Power consumers

Shows your configured power consumers and EEBus devices as well as their current power consumption. The display is updated every 5 seconds.

D Energy

Display of the energy balance of individual power sources or power consumers for a certain period of time. Select a period (**Today**, **Current week**, **Current month**, **Current year**) from the list.

Total consumption: The total energy consumption of all configured power consumers for the selected period.

Feed-in compensation: Remuneration of the fed-in energy generated with the photovoltaic system.

Fed-in power from photovoltaic system: Power fed into the grid from the photovoltaic system.

Generated power by photovoltaic system: Total generated electrical energy from the photovoltaic system.

Select the **History** button to display more detailed information on the energy balance of the individual power consumers.

Energy Manager

In order for the Energy Manager to perform the charging processes in a coordinated manner, the Energy Manager needs information

- on your tariff
- for power distribution if several chargers are to be used

Functions can be activated and deactivated.

Making tariff settings

For information on the tariff settings, refer to the
 ▶ Home Energy Manager installation instructions.

Activating optimized charging

For information on activating cost-optimized charging and self-consumption optimization, refer to the
 ▶ Home Energy Manager installation instructions.

View energy curve

The power source or the power consumer is selected here, whose energy curve (in kilowatt hours per time interval) can be viewed over a freely selectable period of time. The costs for this period are calculated using your electricity tariff data.

If a photovoltaic system is also configured, the following information can be seen:

Generated power by photovoltaic system: Total generated electrical energy from the photovoltaic system

Used power from photovoltaic system: Consumed electrical energy from the photovoltaic system

Fed-in power from photovoltaic system: Power fed into the grid by the photovoltaic system

Feed-in compensation: Remuneration of the fed-in energy generated with the photovoltaic system

| Optional | Explanation |
|------------------|--|
| Device | Specification of the power source or power consumer |
| Time span | Specification of the time frame for which the history should be displayed (day, week, month, year) |
| Time | Specification of date |

i Information

The current curve measurements are not compliant with the calibration regulations and can therefore deviate slightly from the actual values. The values are not used for billing electricity costs.

Porsche assumes no liability and provides no guarantee for the accuracy of this information.

Connections

For an overview of all options for connecting, refer to the

- ▶ Home Energy Manager installation instructions.

In order to be able to fully use the Energy Manager functions, the Energy Manager needs an Internet connection.

i Information

If the end device is in the home network, it can no longer access the Web Application via the IP address of the hotspot (192.168.9.11) or the DNS address (https://porsche-hem/), but only via the automatically assigned IP address or using the host name (https://porsche.hem).

- Existing IP address entries:
 - Web Application: **Settings ▶ Maintenance ▶ Connection information**
 - Network router
- Existing host name entries:
 - Web Application: **Settings ▶ Maintenance ▶ Connection information**
 - Access data letter

i Information

In the Web Application, the hotspot connection should only be deactivated if it can be integrated into a home network.

Via WiFi

For information on establishing a connection to the WiFi network, refer to the
 ▶ Home Energy Manager installation instructions.

Manage WiFi networks

| Optional | Explanation |
|------------------------------|--|
| Different network | <ul style="list-style-type: none"> ▶ Select if your network is an invisible network. |
| Manage known networks | <ul style="list-style-type: none"> ▶ Select Delete to remove saved networks. The Energy Manager is therefore always in the relevant network. |
| Frequencies | <p>A 2.4 GHz frequency band is used.</p> <ul style="list-style-type: none"> ▶ In the event of connection problems, deactivate the 5-GHz-frequency band on the network router or switch from an automatic channel selection to a free fixed channel. |

Disconnecting the network connection

1. Select the network to which a connection exists.
2. Select **Disconnect** to disconnect the connection to the WiFi network.

Via hotspot

For information on establishing a hotspot connection, see the

- ▶ Home Energy Manager installation instructions.

Über Powerline Communication (PLC)

For information on establishing a connection to the PLC network, refer to the

- ▶ Home Energy Manager installation instructions.

Via Ethernet

For information on establishing an Ethernet connection, refer to the

- ▶ Home Energy Manager installation instructions.

Link user account

For information on linking the user profile with the Porsche ID account, refer to the

- ▶ Home Energy Manager installation instructions.

Settings System

Change password

Changes the password for logging into the Web Application. The initial password from the access data letter is overwritten with the newly selected password.

- ▶ Select **Change** and enter a new password.

Specify language and country/date and time

- ▶ For information on the language and country settings and for the date and time, see the
 - ▶ Home Energy Manager installation instructions.

Currency

If another currency is switched to here, the previously used currency changes in the user interface (e. g. under **Tariff settings**). Already specified values for the tariff are adopted for this currency, but not converted to the new currency.

Resetting custom passwords

By activating this function, all passwords are reset to the initial passwords of the access data letter.

The network settings are also reset and the saved network profiles are deleted.

It is recommended to create a backup of your settings before a reset.

- ▶ Follow the installation instructions for the Home Energy Manager.

Service

Displaying device and connection information

This information refers to the data on the device or the existing network connection, such as:

- the version number of the software (changes with each software update)
- the IP addresses that can be used to access the Energy Manager

In the event of an error message, this data is required by the Porsche Dealership.

Downloading software updates

The Energy Manager can be updated to the latest software version both automatically and manually. The software version that was just installed can be viewed in the **Device information**.

Download automatically

Information

The Energy manager must have an Internet connection for automatic software updates.

Software updates are installed automatically when the function is activated.

- ▶ Activate the function **Automatic software updates**.

Downloading software manually

As an option for automatic updating, you can also search for a software update manually.

- **Option 1:** Updating with an existing Internet connection of the Energy Manager
1. Select **Search for software updates** button.
 - ➔ New software updates are searched in the background. New software updates are offered for download.
 2. Start downloading the software update.
 3. Install the software update.
- **Option 2:** Updating without an existing Internet connection of the Energy Manager
- ✓ The Energy Manager and end device are in the same network.
1. Open <https://tinyurl.com/porsche-e-help> in the browser on the end device and navigate to the software update page of the charging hardware. You will find the software updates after selecting the Home Energy Manager and entering the serial number.
 2. Search for the current software version and download it to the end device.
 3. Select **Upload update file** in the Web Application.
 4. Navigate to the file and load it.
 5. Select **Start update** in the dialog.
 - ➔ The software update is loaded and installed. The system is restarted.

Saving and restoring a backup

Your configuration settings and already collected data can be saved using a backup. If necessary, the backup can restore these settings, e. g. after resetting to factory settings. Backups can be created automatically (recommended) and manually.

Store backups automatically

When this function is activated, the backups are stored on the connected USB storage device automatically.

1. Insert the USB storage medium into one of the two USB ports of the Energy Manager. A prerequisite is that the USB storage medium has an ext4 or FAT32 file system.
2. Activating the function.
3. **Password assigned:** Enter password.
 - ➔ The password protects your data and must be checked when importing or restoring the backup.

Information

It is still possible to perform a backup manually.

Backing up manually

For a manual backup, the data can be stored on an end device.

- ✓ The Energy Manager and end device are in the same network.
1. **Password assigned:** Enter password.
 - ➔ The password protects your data and must be checked when importing or restoring the backup.
 2. Select **Create backups**.
 3. Navigate to the storage location.
 4. Save backup file.

Restore backup

1. Select the **Restore backup** button.
2. Navigate to the backup file and load it.
3. Enter the password that was used when saving.

Restart system

If the Energy Manager applications are not running correctly, it is recommended to restart the device.

- ▶ Select the **Restart** function.

Alternatively, the device can also be restarted on the device itself.

▶ Follow the installation instructions for the Home Energy Manager.

Diagnostics

Existing error messages for the Energy Manager can be viewed here.

- ▶ Select **Update** to check the system for existing error messages.
 - ➔ Existing error messages are listed in the Web Application.

Status and error information can be downloaded. This information can also be made available to a Porsche dealership.

1. Select **Download diagnostic file**.
2. Navigate to the storage location and save the file.

Home setup

The **Home user** can add and remove power consumers here. Other corrections and additions are only possible with the **Customer support** user.

Information

When the home setup is performed again, settings made are automatically saved after one minute of inactivity (no active charging of linked chargers).

For information on overload protection, refer to the

▷ Home Energy Manager installation instructions.

- ✓ Logged into the Web Application as a home user.
- ▶ Configure home setup. **Home setup** includes the following points:
 - Configuration of the Energy Manager in terms of power consumers
 - Prioritization and management of charging processes when using multiple chargers
 - Activating functions, e. g. **Overload protection**, **Self-consumption optimization** and **Cost-optimized charging**

Specifying mains phases

Only the Customer **service** user can make settings for the mains phases.

▷ Follow the installation instructions for the Home Energy Manager.

Assign current converter

Only the **Customer support** user can make settings for the current converters.

▷ Follow the installation instructions for the Home Energy Manager.

Configuring power sources

Only the **Customer support** user can make settings for the power sources.

▷ Follow the installation instructions for the Home Energy Manager.

Specifying power consumers

Existing power consumers (e. g. garage, sauna) and EEBus devices (e. g. charger Porsche Mobile Charger Connect, Porsche Mobile Charger Plus) are specified here. The current transformers are assigned to the phases used.

▷ Follow the installation instructions for the Home Energy Manager.

Operation

Malfunctions

- ▶ If the energy manager malfunctions, restart it.
- ▶ If the fault persists, contact an authorized Porsche dealer.

Maintenance

The energy manager is maintenance-free. The latest software must always be installed, in order to guarantee the full functionality and reliable operation of the energy manager.

- ▶ Install the software updates via the web application.

Disposal of the product



Electrical/electronic devices and batteries can be handed in at a collection point or waste management facility.

- ▶ Do not dispose of electrical/electronic devices and batteries in household waste.
- ▶ Dispose of electrical/electronic devices and batteries in accordance with the applicable environmental protection regulations.
- ▶ If you have questions about disposal, contact an authorized Porsche dealer.

Identification plate

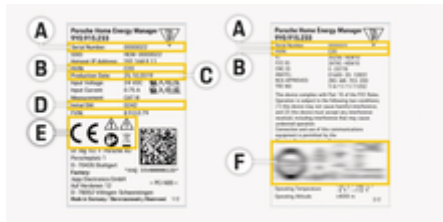


Fig. 4: Identification plate (example)

- A** Serial number
- B** Hardware version identification number
- C** Production date
- D** Initial software
- E** Pictograms (> Refer to chapter "Key to pictograms" on page 3.)
- F** Certification marks

Production information

Declaration of Conformity



The Energy Manager has a radio system. The manufacturers of this radio equipment declare that it complies with the specifications for its use in accordance with Directive 2014/53/EU. The full text of the relevant EU Declaration of Conformity is available on the Porsche website at the following address:

<https://tinyurl.com/porsche-docs>

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