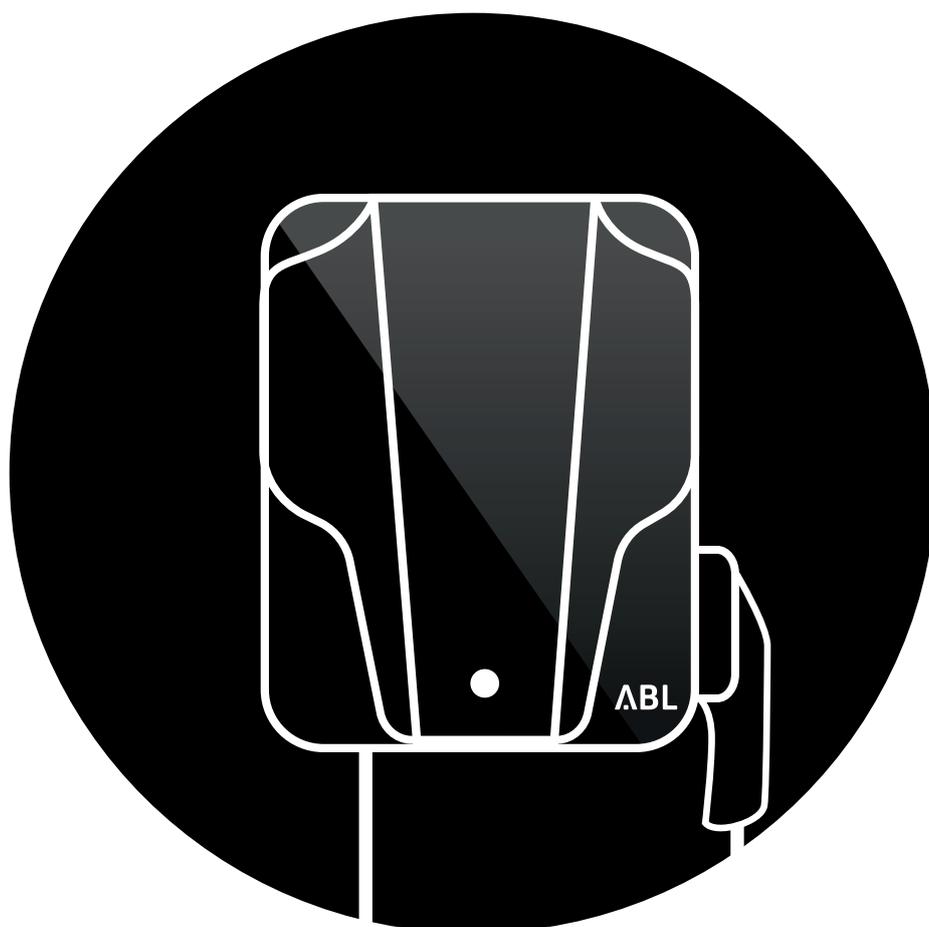


Wallbox

eMH1

with cable



Contact

Manufacturer **ABL**

ABL Sursum
Bayerische Elektrozubehör GmbH & Co. KG

Albert-Büttner-Straße 11
91207 Lauf / Pegnitz

Germany

Phone +49(0)9123 188-0
Fax +49(0)9123 188-188

Web www.abl.de
Email info@abl.de

Support

Phone +49(0)9123 188-600
Email emobility.support@abl.de

Contents

Contact . . . . .	.ii
Safety and Operating Notices . . . . .	.1
Safety Notices in this Manual . . . . .	.1
Safety notices on the device . . . . .	.1
General safety information . . . . .	.2
Operating instructions / Maintenance . . . . .	.2
Introduction . . . . .	.4
Product description . . . . .	.4
Identifying your product variant. . . . .	.5
Package contents and unpacking . . . . .	.5
Available accessories . . . . .	.6
Installation and power supply connection . . . . .	.7
Prerequisites for the mounting site and installation. . . . .	.7
Preparation and mechanical installation . . . . .	.8
Electrical installation of your Wallbox	10
Taking into operation and charging procedure	12
Safety information for taking the Wallbox into operation	12
Normal operation.	13
Charging procedure.	13
Resolving errors	15
Operating states	15
Error messages during operation with the vehicle	16

Disruptions to the operation of the Wallbox and solutions	16
Taking the device out of operation	17
Appendix	19
Technical specifications	19
Standards & guidelines	19
Trademarks	20
CE certification and compliance declaration	21
Glossary & Definitions.	21
Drilling template	22
Warranty and guarantee provisions	23
Disposal advice	24
Intellectual Property & Copyright	24

Safety and Operating Notices

Safety Notices in this Manual

This instruction manual contains important information for the installation and safe use of the type eMH1 – EVSE 563 Wallboxes it refers to. Please ensure therefore that you read and follow the safety notices provided.

In particular, the warnings and safety measures clearly marked in this manual must be followed. The associated symbols carry the following meanings:



DANGER!

Sections marked with this symbol draw attention to electrical voltages that represent a danger to life and limb: Actions marked with this symbol must not be carried out under any circumstances.



CAUTION!

Sections marked with this symbol draw attention to further hazards that may lead to damage to the station itself or to other electric devices. Actions marked with this symbol must be carried out with special care.

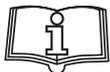


PLEASE NOTE:

Sections marked with this symbol draw attention to further important information and particularities that are necessary for operating the device successfully. Actions marked with this symbol should be carried out as required.

Safety notices on the device

Further safety notices and operating instructions can be found on the device. These symbols carry the following meanings:



WARNING!

Please ensure that you read the instruction manual (this document) before you open the housing of your eMH1 Wallbox.



WARNING!

After opening, dangerous electrical voltages may be present inside the housing.



WARNING!

Please ensure you read the instruction manual (this document), before you continue.

SAFETY AND OPERATING NOTICES

In case several users operate the Wallbox, the contents of this manual and the safety notices in particular must under all circumstances be passed on to each individual user.

General safety information

This device represents the current state of technology and fulfils all technical safety requirements, directives and norms. The safety information provided serves to ensure the proper operation of the device. Disregard of or actions contrary to the safety information and instructions contained in this manual and printed on the device may lead to electric shock, fire and/or severe injury.

The device may only be operated in technically sound condition. Malfunctions that affect the safety of persons or the device may only be repaired by authorized or qualified specialist personnel. In case you require service (see next page), always turn first to the dealer who supplied the device to you.

Service is required when e.g. the power supply cable or the charging connector are damaged, when liquids or objects have entered the housing, the device has been directly exposed to rain, has been dropped, is malfunctioning or has been otherwise damaged.

Please pay attention to the following points:

- Read this manual carefully.
- Keep this manual in a safe place where all users can always access it.
- Heed all warnings.
- Follow all instructions.
- Do not operate this device in close vicinity to running water.
- Do not install this device near radiators, heat storage devices, stoves or other sources of excessive heat.
- Do not step on the power supply cable, do not kink it and treat plugs and sockets with special care.
- Only use accessories intended and sold for the device by the manufacturer.
- Do not place containers with liquids on the device, as these may tip over and liquids may enter the device.

Operating instructions / Maintenance

Please note the following instructions for the operation and maintenance of your eMH1 Wallbox:

- The device must be connected to the protective earth conductor of your electricity supply.

- Ensure that the rated voltage and rated current of the device comply with the parameters of your local electricity grid and that the rated output is not exceeded during charging operations.
- At all times comply with local safety regulations for the country in which you operate the device.
- To disconnect the device completely from the power grid, the power supply must be cut at your domestic miniature circuit breaker (MCB).
- Follow all information and instructions of the manufacturer for installing and operating the device.
- Do not operate the device in confined spaces.
- Make sure that the front cover shield is always locked to prevent unauthorized opening of the housing. Keep the key in a place that is known to all authorized users.
- You must under no circumstances make any changes to the housing or the internal wiring of the device: Any disregard of this instruction fundamentally breaches the guarantee provisions and voids the warranty with immediate effect.
- No parts to be maintained by the user are located inside the device.
- Only have qualified, specialist personnel repair and/or install the device.



WARNING!

This Wallbox is intended for connection to and operation on 230 / 400 V 50 Hz mains power only. Power supply cables may be installed below or above the wall surface. The cable should enter the device on the underside of the rear part of the housing (see page 9).

- Only use a dry cloth to clean the device. Do not use aggressive cleaning agents, waxes or solvents (such as cleaning fluid or paint thinner), because they can dull the displays on the device.
- The Wallbox must never be cleaned using a pressure cleaner or similar implement.
- Check the permanently installed charging cable of your eMH1 station regularly for potential abrasions or damage.



DANGER!

Should you discover any damage to the charging cable or a supply cable, you must take the device out of operation immediately. In this case, please turn to an authorized service partner or the dealer from whom you purchased the product. You must not under any circumstances attempt to resolve or repair any damage or malfunction yourself!

- Relevant local regulations for operating electrical devices always apply.

Introduction

Congratulations on the purchase of your eMH1 Wallbox by ABL!

With this Wallbox from our “Electric Mobility Home” series, you have chosen an innovative as well as future-proof product that guarantees particularly high operating safety while featuring extremely compact dimensions.

eMobility helps to save natural resources and protect the environment sustainably. ABL is, with its eMH1 family of products, a leading supplier in this area. The eMH1 combines progressive and pleasing design with intuitive functionality: According to their requirements, users may select from models with a variety of features developed for domestic and semi-public applications.

The eMH1 series Wallboxes are constantly developed further and at all times comply with the regulations and norms for the charging of electric vehicles according to IEC 61851-1, Mode 3.

If you are looking for additional information about your Wallbox or would like to find out more about available accessories and the remaining ABL product range, please visit our website at

www.abl.de

Product description

Your eMH1 Wallbox allows you to comfortably and safely charge electric vehicles according to IEC 61851-1, Mode 3. Switching layout, cable diameters and charging connectors of the eMH1 are designed for the shortest possible charging times.

We place the highest value on user safety in all our products. In combination with the protection devices of your electrical infrastructure and the fault current protection of your electric vehicle, these measures ensure effective protection against short circuit, electric shock and other operational hazards.

The eMH1 Wallbox is especially easy to operate in day-to-day use: Two LED lights in the upper part of the housing allow you to check the current operating status at any time. Should a malfunction occur, you can identify the cause by its specific LED error code without having to open the housing. Access to the internal switching devices is controlled through the lockable cover shield – this way you can ensure that the housing can only be opened by authorized users.

A common characteristic of all eMH1 models is the particularly space-saving housing made from durable plastic, which effectively protects the internal electric circuits against environmental influences and unauthorized access. In general, the EVSE 563 should be installed and taken into operation by a qualified electrical contractor. Your local distributor will be happy to arrange specialist installation for you at your desired location.

Identifying your product variant

The eMH1 series comprises several model variants, which are mechanically and/or electrically adapted to different usage profiles. For identification, a product compliance plate is located at the back of the lockable housing cover shield near the hinge. Please open the cover shield before taking the device into operation and check the compliance plate to ensure that the model variant you have installed is the one described in this manual.



For identification, the model code (EVSE 563) as well as the power supply ratings (voltage, frequency, current) indicated below it are especially relevant.

The following Wallbox is the subject of this manual:

MODEL	POWER SUPPLY	MODEL VARIANT
EVSE 563	230/400 V 50 Hz 32 A	Fixed charging cable with type 2 connector, charging output 22 kW



WARNING!

The information and technical specifications contained in this manual relate exclusively to the eMH1 EVSE 563 model variant mentioned in these instructions and must under no circumstances be transferred to other eMH1 models.

Package contents and unpacking

Your eMH1 Wallbox is delivered with a range of accessory components, which are necessary for the proper operation of the device. Therefore, please check immediately after unpacking whether the following components are included:

COMPONENT	QUANTITY	DESCRIPTION
eMH1 Wallbox	1	Wallbox comprising lower housing part, upper housing part and cover shield with integrated lock

INTRODUCTION

COMPONENT	QUANTITY	DESCRIPTION
Key	2	Key for locking the housing cover shield
Drilling template	1	Template for drilling the holes for wall mounting

Should one or more components be missing after unpacking, please contact your local distributor immediately: You can find the necessary contact details on page ii in this manual.

Available accessories

ABL sells additional accessories for your eMH1 Wallbox. For the EVSE 563, the following components are available:

	DESIGNATION	MODEL NUMBER	QUANTITY
	<p>Mounting pole* For mounting all eMH1 Wallboxes with or without bracket Dimensions: 1600 x 280 x 70 cm Weight: 2,000 g</p>	STEMH10	1
	<p>Mounting plate / bracket with fixings for all eMH1 Wallboxes Weight: 640 g</p>	WHEMH10	1

* does not include the Wallbox pictured

Please contact your local distributor if you require additional information about these components or would like to place an order.



CAUTION!

Please note that the do-it-yourself installation of accessory components is not permitted: Please contact a qualified contractor or arrange installation with your local distributor.

Please also visit our website at...

www.abl.de

You will find further information about our products and our entire product range there.

Installation and power supply connection

The electrical installation of the eMH1 Wallbox model variants described in this manual must always be carried out by qualified specialist personnel: Please contact an electrical contractor or arrange installation at your premises with your local distributor.

However, as a user you may carry out the mechanical installation of the Wallbox yourself, as long as you follow the safety notices and general instructions.

Prerequisites for the mounting site and installation

Your eMH1 Wallbox is an electrical device and is therefore subject to particular prerequisites for indoor and outdoor installation: Although the housing of the eMH1 complies with the standards for the IP54 degree of protection, you must take into account certain environmental conditions, especially outdoors.

In selecting the mounting site you must consider the following points:

- For the safe operation of your Wallbox, minimum distances to other technical installations must be observed: You can obtain further information from your electrical contractor or your distributor.
- The Wallbox must be installed where it is freely accessible to all authorized users.
- Ideally, the mounting site should already provide a connection to the power supply. If not, a separate supply must be installed that complies with the generally prescribed standards for cabling and building infrastructure: Please contact a qualified electrical contractor for details.



WARNING!

The power supply for the eMH1 must always be protected by a domestic miniature circuit breaker (MCB)

The supply cable has be protected by an additional external FI residual current circuit breaker (RCCB). Further information available under Technical Data, see page 19.

- This Wallbox is designed for connection to and operation on a rated voltage of 230/400 V 50 Hz.
- The power supply cables may be installed above or below the wall surface. However, the cable should preferably enter the device through the inlet on the underside of the bottom part of the housing.
- Sufficient air circulation must be ensured at the mounting site so that the Wallbox is cooled during operation: Always observe the allowed operating temperatures (see "Technical specifications" on page 19).
- Do not install or operate the Wallbox in direct sunlight, as it could overheat and/or the housing could be damaged over time.

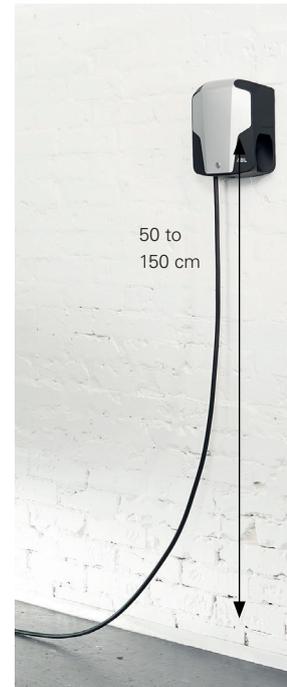
INSTALLATION AND POWER SUPPLY CONNECTION



DANGER!

In case of visible damage to the Wallbox occurring during installation or use, the device must be taken out of operation immediately, as this poses a danger to life and limb. In this case, replacement of the Wallbox is required!

- Outdoors the Wallbox should only be installed in covered locations that provide sufficient protection from rainwater. Installation in a garage or carport is recommended, as long as it fulfills the stated requirements.
- The recommended installation height is 50 to 150 cm from the floor to the lower edge of the housing.
- The required mounting area for the model variants of the eMH1 Wallbox described in this manual is at least 262 x 222 mm (H x W).
- The mounting area must have an even surface that provides sufficient stability for installing the eMH1.
- Choose a mounting site that allows you to reach the charging socket of your vehicle comfortably with the charging connector of the eMH1: The cable must not under any circumstances be strained when connected to the vehicle.



Preparation and mechanical installation

After determining the mounting site for the eMH1, you can begin with the mechanical installation. For installation you will need the following components:

- Power drill or cordless drill (not included)
- Drill bit Ø 8 mm, appropriate for the wall material (not included)
- Pliers or cutter for breaking or cutting out the cable inlet in the rear part of the housing of the eMH1 (not included)
- Three flat-headed screws size M5 x 60, fully or partly threaded, with a head diameter of 8.5 mm ± 1 mm (not included)
- Nylon wall plugs 8 x 40 mm suitable for the wall material (not included)
- Drilling template for the eMH1 model variants described in this manual (included)
- Spirit level if required (not included)



CAUTION!

Check the measurements on the drilling template with a calibrated measuring tape BEFORE you mark the drill holes using the template and then drill them.

Drilling the mounting holes using the drilling template

Proceed as follows to drill the holes using the drilling template:

1. Place the drilling template vertically on the chosen mounting surface: Use a spirit level if required.
2. Mark the drill holes using the template.
3. Drill the marked mounting holes (\varnothing 8 mm) and check the positions of the holes using the drilling template.
4. Insert the wall plugs for the mounting screws.

Preparing the Wallbox

Proceed as follows to prepare the Wallbox for installation:

1. Open the cover shield of the EVSE 563 using the key supplied.
2. Loosen the four screws connecting the front part of the housing with the rear part: Keep the screws in a safe place as you will need them again to complete installation.
3. Pull off the front part of the housing.
4. Remove the plastic tongue intended for the power supply in the lower section of the rear part of the housing using a suitable pair of pliers or a cutter.
5. Use the cutter to cut an opening to suit the power supply cable into the rubber seal of the rear part of the housing. If necessary, remove the rubber seal for this purpose and place it back into the rear part of the housing afterwards.



Mechanical installation of the Wallbox

1. Fix one screw (5 x 60 mm, screw head \varnothing 8 mm) in the top drill hole and hang the upper mounting point of the Wallbox on it.
2. Fix the two lower mounting points using the other two screws (5 x 60 mm, screw head \varnothing 8 mm).
3. Tighten the two lower screws so that the rear part of the housing is held in place without being deformed by the tension applied to the mounting points.

INSTALLATION AND POWER SUPPLY CONNECTION

Electrical installation of your Wallbox

The electrical connection of the EVSE 563 to your domestic power supply and taking it into operation must always be carried out by a qualified person or specialist electrical contractor. All local norms and regulations regarding the installation of electrical devices must be observed.



WARNING!

Read and make sure that you follow all safety notices in this manual and those on the Wallbox itself!

Now turn off the miniature circuit breaker (MCB) in your domestic power distribution box before you insert the power supply cable into the EVSE 563 housing: The power supply cable must be voltage-free under all circumstances before you or any third person open the housing and/or manipulate the power supply in any way.



DANGER!

Under all circumstances deactivate the miniature circuit breaker (MCB) allocated to the eMH1 in your domestic power distribution box before you begin electrical installation. Also ensure that the MCB cannot be reactivated during installation. Otherwise there is a danger of electric shock!

- In addition, please deactivate the upstream domestic residual current circuit breaker (RCCB) to disconnect the internal electronics from the power supply terminal block during installation. Further information available under Technical Data, see page 19.
- Insert the power supply cable through the lower cable inlet into the housing and fix the cable using the internal strain relief clamp.

The supply cable for the 3 phase EVSE 563 is connected as follows:

DESIGNATION	WIRE COLORS	CONNECTION CODING
Current-carrying conductor phase 1	Brown	L1
Current-carrying conductor phase 2	Black	L2
Current-carrying conductor phase 3	Gray	L3
Neutral	Blue	N
Protective earth	Green-Yellow	PE



DANGER!

The above color-coding is NOT internationally standardized: Should the individual wires in the power supply cable be color-coded differently, please immediately contact a qualified electrical contractor! Have the power supply checked and replaced if necessary.

INSTALLATION AND POWER SUPPLY CONNECTION

After successful connection to the power supply by a qualified specialist or electrical contractor, please take the following steps to complete installation:

1. Replace the upper part of the housing.
2. Fix the upper part of the housing to the rear part using the appropriate screws.
3. Lock the cover shield of the EVSE 563 using the key supplied and store the key in a safe place.
4. Switch the external FI residual current circuit breaker (RCCB) back on.
5. Switch the MCB in your domestic power distribution box back on.

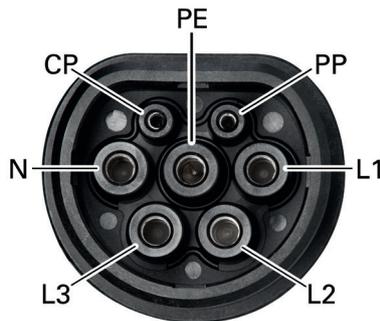


PLEASE NOTE:

We recommend that you take your Wallbox into operation in the presence of a qualified installer: He or she will be able to assess the proper functioning of the Wallbox and correct any malfunctions or installation errors that may occur.

Taking into operation and charging procedure

Your Wallbox is ready for use immediately after mechanical and electrical installation have been completed. The EVSE 563 is equipped with a fixed charging cable with a type 2 charging connector. This connector has three current-carrying contacts, a PE-protective earth conductor as well as two signaling contacts (Control Pilot and Proximity Pilot), which ensure a secure connection and therefore the safe operation of the Wallbox.



As long as the connector is not locked into place in the vehicle socket, there will be no feedback response via the signaling contacts of the charging connector: As a result, charging will not be initiated and the EVSE 563 will not apply a voltage to the connector's current-carrying contacts.

In place of the integrated RCCB the EVSE 563 model variant has a switch that you can flick to interrupt the Control-Pilot signal to the charging socket and thereby prevent detection of the electric vehicle. To prevent unauthorized access, the switch is located under the lockable housing cover.



WARNING!

Ensure that your vehicle has internal DC fault current protection: Depending on the country where you operate the eMH1, charging using the EVSE 563 without integrated DC-RCM may only be permitted with an external, upstream type B RCCB! Otherwise, all local regulations for connection to the power supply must be observed.

Safety information for taking the Wallbox into operation

Before you take your EVSE 563 Wallbox into operation, you must observe the following safety notices:

- Ensure that the EVSE 563 is connected to the domestic power supply according to the instructions in this manual and the separately available service guide.
- Ensure that supply cable is separately protected in your domestic power distribution box by a suitable miniature circuit breaker (MCB, C characteristic).
- Ensure that the upstream external FI residual current circuit breaker (RCCB) is switched on.
- Ensure that the Wallbox has been installed according to the instructions in this manual: Check especially that there is free access to the Wallbox, that it is not exposed to direct sunlight or rain and that the electric vehicle can be connected without any strain or other encumbrance on the charging cable.

TAKING INTO OPERATION AND CHARGING PROCEDURE

- Ensure that the housing cover shield is always locked during normal operation.
- Ensure that the charging cable is not twisted and check that cable, connector and housing do not show any observable damage.

Normal operation

The fixed charging cable leaves the Wallbox on the left lower side of the housing. A matching compartment for the charging connector is provided on the right side of the housing: A pin inside the compartment, onto which the connector is hooked, serves to secure it in place.



DANGER!

Except during charging procedures, the charging connector must always be properly stored and thereby secured in its compartment: Never leave the connector lying out in the open or plugged into the vehicle after charging is complete.

You must under no circumstances use excessive force when removing the charging connector from its compartment or replacing it: If the pin inside the compartment is damaged or breaks off, the charging connector can no longer be stored properly. In this case you must under no circumstances continue to operate the Wallbox! Please contact your local distributor from whom you have purchased the Wallbox.

The fixed charging cable of the EVSE 563 is ca. 5 meters in length and thus enables a flexible connection with the vehicle. Unless charging, you should always roll the cable up into a compact shape and store it in a way that prevents it from being damaged by external mechanical forces. Although the cable and connector are designed to withstand high mechanical stresses, you should not drive your vehicle over the cable and/or the connector. Also ensure that the cable is not kinked at the housing outlet and that there is no excessive strain on the cable and/or the housing.



DANGER!

If the cable, the charging connector and/or the housing have suffered mechanical damage or show visible deformities, you must under no circumstances continue to operate the Wallbox. Please contact your local distributor from whom you have purchased the Wallbox.

Charging procedure

The EVSE 563 is engineered for the fastest possible charging of your vehicle according to IEC 61851-1, Mode 3. The actual charging time depends on the battery fitted to your vehicle as well as on the energy currently remaining in the vehicle. For these reasons it is not possible to make a reliable prediction of the charging time: You will discover its actual value in practice and derive your personal charging routine accordingly.

TAKING INTO OPERATION AND CHARGING PROCEDURE

Please follow the following steps to charge your vehicle:

1. Park your vehicle so that the charging socket can be easily reached with the charging connector: The charging cable must not be under any strain during the charging procedure!
2. Open the charging socket on the vehicle.
3. Check the two indicator LEDs on the top part of the EVSE 563: When the Wallbox is ready for operation, the green LED indicator will flash briefly every 5 seconds, while the blue LED will not be illuminated.
4. Remove the charging connector from its compartment by lifting it slightly by the handle ① and pulling it downward ②.
5. Plug the charging connector into the socket completely: The charging process will only start when the two signaling pins in the charging connector will each have sent feedback regarding a safe connection.

The green LED will be illuminated continuously while the connection between Wallbox and vehicle is being established. When the charging procedure begins, the green LED will be extinguished and the blue LED will be illuminated continuously. Charging is completed when the blue LED is flashing.



Removing the EVSE 563 charging connector (illustration is approximate)



PLEASE NOTE:

Should there have been a malfunction during or after the charging procedure, this will be shown by the indicator LEDs. The following chapter describes how you can identify operational states and errors and which measures will become necessary.

Now unplug the charging connector from the charging socket on the vehicle and replace it in the compartment on the housing of the EVSE 563 by inserting the plug into the compartment and slightly lowering the handle.

Resolving errors

Your eMH1 Wallbox is engineered for maximum operational safety and the highest possible charging reliability.

Should a malfunction occur in practice, this is shown by the indicator LEDs on the upper part of the housing as an error code. The following chapter describes how you recognize operating states as well as error codes and which measures you must take to resolve them.



Operating states

The two indicator LEDs on the left above the front cover shield show the current operating status of the eMH1 Wallbox. To indicate certain operating states, the LEDs may...

...be illuminated (continuous ON)

...flash

...be extinguished (continuous OFF).

During normal operation, the following operating states are shown:

		DESCRIPTION
flashes every 5 seconds	OFF	The Wallbox is ready for operation, the vehicle may be connected for charging at any time
illuminated	OFF	The vehicle is connected and has been detected. Next, the charging procedure will start automatically.
OFF	illuminated	The vehicle is currently being charged
OFF	flashes every 5 seconds	Charging is complete, the Wallbox can be unplugged from the vehicle



PLEASE NOTE:

The charging procedure is always terminated by the vehicle, not by the Wallbox. The EVSE 563 only indicates that you can unplug the charging cable from the vehicle charging socket on the basis of communication with the vehicle. Should the vehicle not be charged sufficiently at this point, please contact your service partner for the vehicle.

RESOLVING ERRORS

Error messages during operation with the vehicle

In some circumstances, malfunctions and disruptions may occur that prevent the proper charging of the vehicle according to IEC 61851.1, Mode 3. The Wallbox detects possible errors on the part of the vehicle independently and shows them using the indicator LEDs.

To represent certain errors, the indicator LEDs will flash in a specific, repeating pattern. The following error codes are displayed:

LED-SEQUENCE (FLASHING)	ERROR DESCRIPTION
	The vehicle makes an unauthorized demand on the charging procedure
	Communication with the vehicle is disrupted
	A DC fault current has been detected

The EVSE 563 reinitiates the charging procedure every 30 seconds, checking communications with the vehicle. If the error recurs, the indicator LEDs continue to show the error code. No charging occurs in this operating state.



WARNING!

If the Wallbox continues to show error messages during operation with the vehicle, please always contact your service partner for the vehicle. It is possible that maintenance must be carried out before the vehicle can be charged again using the EVSE 563.

Disruptions to the operation of the Wallbox and solutions

To take suitable measures and restore operation in case of malfunction, you must first clearly identify the type of error.



PLEASE NOTE:

The EVSE 563 must be protected during operation by an external type B RCCB in your domestic power distribution box.

The following errors may occur:

TYPE OF ERROR	POSSIBLE CAUSE	SUGGESTED SOLUTION
LEDs are not functioning	The Wallbox does not have a power supply.	The power supply is interrupted within the domestic electrical infrastructure: Check the upstream circuit breaker in the domestic power distribution box. The external RCCB has been tripped: Check the status of the RCCB and, if necessary, switch it back on using the pivot lever .
	The indicator LEDs are faulty	Should the indicator LEDs be faulty, they must be replaced. In this case, please contact your local distributor.
	The electric vehicle is not recognized	The charging cable is not properly plugged into the vehicle	Remove the recharge plug from the vehicle and plug it back in: Ensure that the connector sits properly inside the vehicle socket.
The vehicle is wrongly configured		Check the vehicle settings and, if necessary, reset them (to factory settings).
The internal Control-Pilot switch of the Wallbox is switched to position 0		Open the housing cover and flick the CP switch back to position I
The indicator LEDs show an error sequence	The Wallbox detects a malfunction	All errors shown by the indicator LEDs relate to vehicle-based functions (see page 15). The Wallbox reinitiates the charging procedure every 30 seconds: Should the error persist, please contact your service partner for the vehicle.



PLEASE NOTE:

Should there be a fault in the power supply that you cannot resolve yourself, please contact a qualified electrical contractor.

Taking the device out of operation

If required, you can take your Wallbox temporarily or permanently out of operation. To do so, proceed as follows:

- Flick the pivot lever of the upstream onsite RCCB into the **0** position (connection to the power supply is interrupted).

RESOLVING ERRORS

- In addition, switch off the upstream onsite miniature circuit breaker (MCB) in your upstream domestic power distribution box (position **0**).

Now the EVSE 563 is completely free of electricity and may be demounted if required.



WARNING!

The electrical de-installation of the EVSE 563 must always be carried out by a qualified electrical contractor.



ENVIRONMENTAL NOTICE!

Please note that this product may not be disposed of in the household garbage collection, but must be taken to a collection point for electrical/electronic waste. Please observe all current national and regional legal regulations. You can get further information from your municipal administration, the waste management depot responsible for your area as well as from your local distributor.

Appendix

Technical specifications

MODEL VARIANT	EVSE 563
Compliance	IEC 61851-1/22
Rated voltage	230/400 V 50 Hz
Rated current	32 A (MCB required onsite)
Max. output	22 kW
Charging cable	Type 2, length ca. 5 m
Circuit-protection devices	external RCCB required onsite
Energy meter	not included
Control/ Customization	internal RS485-interface
Terminal block	up to 6 mm ²
Operating temperature	-25°C to 50°C
Storage temperature	-30°C to 85°C
Relative humidity	5 to 95% (no condensation)
Class of protection	I
Degree of protection (housing)	IP54
Overvoltage category	III
Dimensions	272 x 220 x 106 mm (H x W x D)
Weight per unit	ca. 4.9 kg

Standards & guidelines

Your eMH1-EVSE 563 Wallbox complies with the following standards and classes of protection:

General standards

STANDARD	DESCRIPTION
2004/108/EC	EMC Guideline
2002/95/EC	RoHS Guideline
2002/96/EC	WEEE Guideline
ElektroG	Electrical and Electronic Device Statute

APPENDIX

Standards governing electromagnetic interference (EMV)

STANDARD	DESCRIPTION
DIN EN 61000-6-2:2005	Device interference protection for industrial applications
DIN EN 61000-6-3:2007	Device interference for domestic applications

Device safety standards

STANDARD	DESCRIPTION
IEC 61851-1 Ed 2.0:2010	Conductive charging systems for electric vehicles – Part 1: General requirements
IEC 61851-22 (69/201/CD)	Conductive charging systems for electric vehicles – Part 22: AC Wallbox for electric vehicles
DIN EN 61851-1: 2012-01	Conductive charging systems for electric vehicles – Part 1: General requirements
E DIN EN 61851-22:2011-04	Conductive charging systems for electric vehicles – Part 22: AC Wallbox for electric vehicles
HD 60364-7-722:2012	Low voltage installations – Part 7-722: Power supply for electric vehicles

Classes of protection & Degrees of protection

CLASS OF PROTECTION / DEGREE OF PROTECTION	DESCRIPTION
 IP54	<p>Class of protection I: All electrically conducting parts of the device are connected at low resistance with the protective earth system of the fixed installation</p> <p>Degree of protection of the device (protection against dust in harmful quantities and protection from splashing water)</p>

Trademarks

All trademarks mentioned in this manual including those that may be protected by third parties are, without restriction, subject to the regulations of the respectively applicable trademark law and the property rights of the respective registered owners. All trademarks, trading names or company names marked here as such are or may be trademarks or registered trademarks of their respective owners. All rights not explicitly granted here are reserved.

The absence of an explicit marking of trademarks used in this manual must not lead to the conclusion that a name is free from the rights of third parties.

CE certification and compliance declaration



The eMH1-EVSE 563 Wallbox carries the CE mark. The respective compliance declarations can be obtained from

ABL SURSUM Bayerische Elektrozubehör GmbH & Co. KG

on request and are available at **www.abl.de** for download.

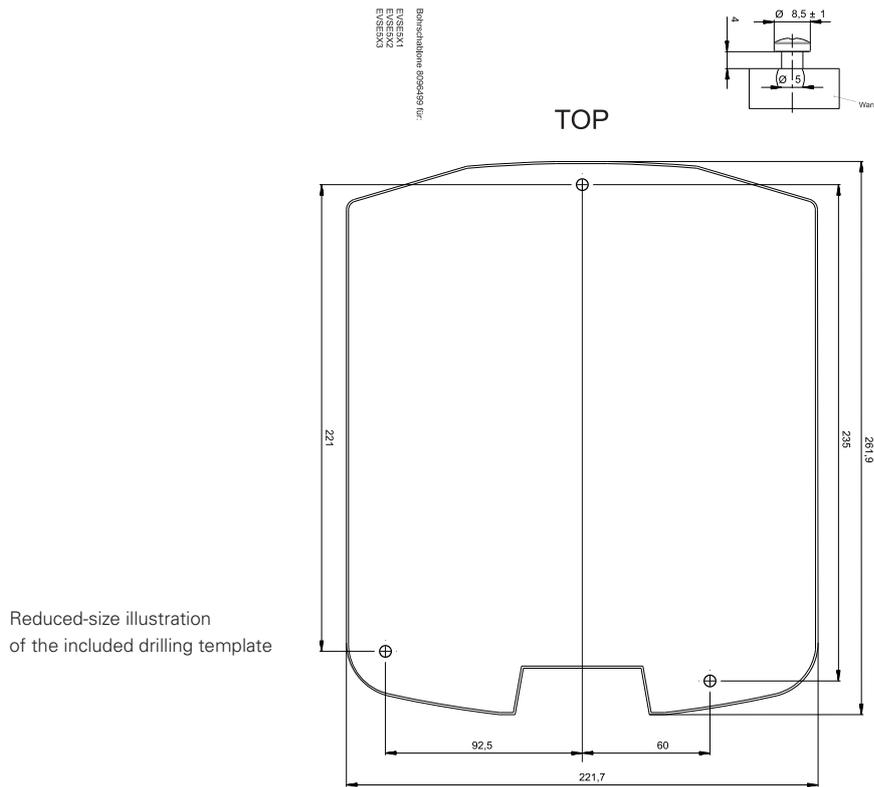
Glossary & Definitions

This table lists and explains important abbreviations from the wider eMobility area.

ABBREVIATION	DESCRIPTION	MEANING
BEV	Battery Electric Vehicle	Electric vehicle (100% electric use)
DC-RCM	Direct Current - Residual Current Monitor	Monitoring device for detecting DC fault currents
GSM	Global System for Mobile Communications	Standard for fully digital mobile networks
HEV	Hybrid Electric Vehicle	Hybrid vehicle (combination of a classic combustion engine and an electric motor with kinetic energy recovery system)
LED	Light Emitting Diode	Light-emitting diode
MCB	Miniature Circuit Breaker	Residual current circuit breaker
OCPP	Open Charge Point Protocol	Communication protocol between Wallbox and service providers (platform-dependent)
PHEV	Plug-In Hybrid Electric Vehicle	Plug-in hybrid vehicle (combination of classic combustion engine and electric motor)
RCCB	Residual Current operated Circuit-Breaker	Residual current device (RCD)
RCD	Residual Current protective Device	Residual current device (RCD)
RCM	Residual Current Monitor	Monitoring device for the detection of fault currents of a critical value
REEV	Range Extended Electric Vehicle	Electric vehicle with range extension (using a small combustion engine or a fuel cell)
RFID	Radio Frequency Identification	Identification using electromagnetic waves

Drilling template

Your eMH1 Wallbox comes with a template (see reduced-size illustration) for drilling the mounting holes in a suitable substrate. Electrical installation of the eMH1 model variants described in these instructions must always be left to a qualified electrical contractor who will connect the device to the local power supply.



You may, however, carry out the mechanical installation of the Wallbox and drill the necessary mounting holes yourself: This is described in detail in section “Installation and power supply connection” on page 7.

The following instructions, which you must check in advance and may need to discuss with the contractor, always apply to the installation of the Wallbox:

- The required mounting surface for the EVSE 563 is 262 x 222 mm (H x W).
- The recommended shaft diameter for the fixings is 5 mm, with the drill hole diameter to be selected accordingly.
- All three screws and respective drill holes indicated on the drilling template must under all circumstances be used to fix eMH1 Wallboxes.
- Ensure that the selected installation site is suitable for mounting the Wallbox with respect to substrate, power supply/cabling path, distance to the vehicle and environmental conditions.
- Strictly observe all instructions regarding mounting position and height. You will find the necessary information in section “Prerequisites for the mounting site and installation” on page 7.

- Check the measurements on the drilling template before you mark and drill the holes using the template.

**WARNING!**

Consider leaving the final installation to a qualified and authorized electrical contractor: Should malfunctions occur that can be shown to have resulted from improper mounting and installation, all guarantee and warranty provisions will become void. Proof of proper installation (e.g. by submitting the relevant invoices) must be furnished on request before guarantee and warranty provisions come into effect.

Warranty and guarantee provisions

ABL provides the legally prescribed guarantee period as well as a warranty of the same duration for the country in which the product was purchased. Should the product be operated in another country, the legal provisions of the country of purchase apply nevertheless: Under no circumstances are guarantees or the warranty transferable.

Should modifications of any kind have been made to the product that have not been explicitly authorized by ABL or described in the guidelines for authorized service partners, the manufacturer's warranty obligations become void with immediate effect.

On-site repairs are generally excluded by the manufacturer. In case of disregard of this provision, all guarantee and warranty provisions become void with immediate effect.

**WARNING!**

Should problems occur when operating your product, please contact your local distributor immediately and clarify whether the malfunction is covered by guarantee or warranty provisions.

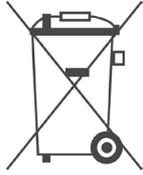
Do not under any circumstances make alterations or repairs to your product yourself!

ABL guarantees the proper operation of the product after delivery within the applicable legal guarantee provisions. This guarantee is limited to damage that can be shown to have resulted from normal use and obvious material or manufacturing defects. In such cases the manufacturer, in collaboration with the local distributor, will attempt to restore the proper functioning of the product. The customer will be responsible for covering any arising transport costs.

However, the manufacturer further rejects any damage claims that can be shown to have resulted from improper use, neglect or modifications, from repair attempts by unauthorized persons or force majeure.

Any assumed guarantees, including a guarantee of marketability or suitability for specific uses are restricted to the warranty period.

Disposal advice



The crossed out trash can symbol indicates that electrical and electronic devices including accessories must be disposed of separate from household trash.

The materials are recyclable as marked. By re-using, recycling or through other forms of processing obsolete devices, you make an important contribution to environmental protection.

Intellectual Property & Copyright

Copyright © 2017

Version 1.0, current revision 2017/01/10

All rights reserved.

Any information in this manual may be changed without prior notice and does not represent any obligation on the part of the manufacturer.

Illustrations in this manual may show designs different from the delivered product and do not represent any obligation on the part of the manufacturer.

The manufacturer does not take responsibility for any loss and/or damages that occur because of the data or possible misinformation contained in these instructions.

This manual, in its entirety or in parts, must not be reproduced, stored electronically or otherwise transmitted electronically, electrically, mechanically, optically, chemically, by photocopy or as an audio recording without the written permission of the manufacturer.

