

onnection to the future

PCE Wallbox GLB

Quickstart guide installation of standalone GLB Wallbox



Manual 380226-4.0

TABLE OF CONTENTS

WARNINGS

| INSTALLATION OF STANDALONE GLB WALLBOX | 10 |
|--|----|
| NORMAL USE / CHARGING | 11 |
| BASIC LED INDICATIONS | 11 |
| SOFTWARE GLB | 11 |
| SERVICE/MAINTENANCE | 11 |
| TROUBLESHOOTING/SUPPORT/FAQ | 11 |
| TECHNICAL SPECIFICATIONS | 12 |
| HANDOVER REPORT | 13 |
| WARRANTY CONDITIONS | 14 |

3

WARNINGS

This document contains general descriptions which are verified to be accurate at the time of printing. However, because continuous improvement is a goal at PCE, we reserve the right to make product and software modifications at any time.

Latest manual can always be found at www.pcelectric.at/de/ info/emobility.html



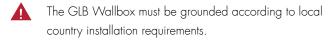
Dielectric Voltage Withstand Test is not allowed on GLB Wallbox.



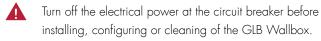
This equipment should not be used by anyone (including children) with reduced physical, sensory or mental capacity, or anyone lacking in experience or knowledge, unless they are provided with supervision or prior instruction in how to use the equipment by the person responsible for their safety.



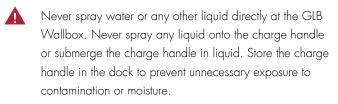
The GLB Wallbox range of charging stations is designed exclusively for charging electric vehicles.



Do not install or use the GLB Wallbox near flammable, explosive, harsh, or combustible materials, chemicals, or vapors.

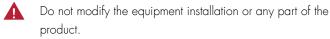


Use the GLB Wallbox only within the specified parameters.





Do not use this equipment if it appears to be damaged or if the charging cable appears to be damaged.









Do not use private power generators as a power source for charging.

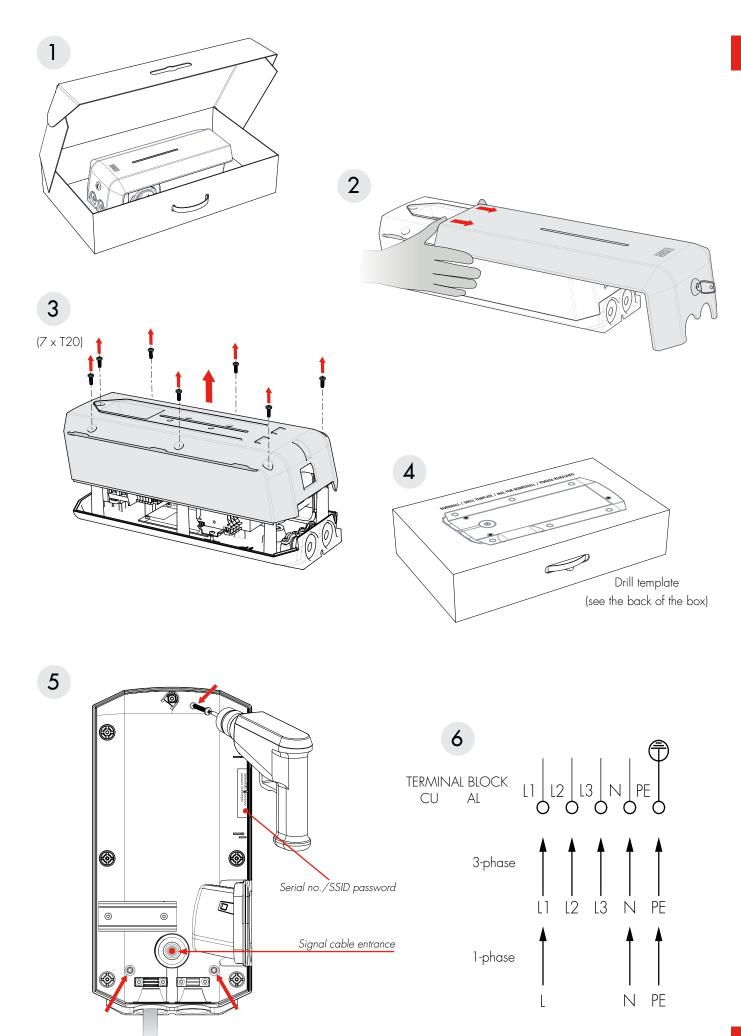


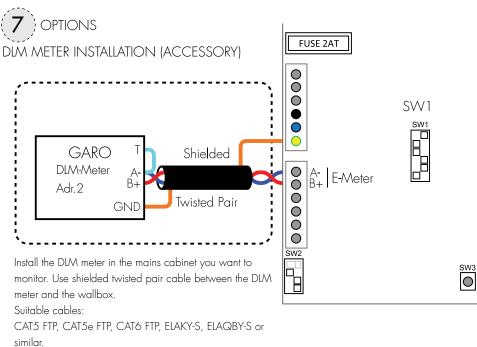
Incorrect installation and testing of the GLB Wallbox could potentially damage either the vehicle's battery and/or the GLB Wallbox itself.



Do not operate the GLB Wallbox in temperatures outside its operating range - see technical specificatrions.

- All installation must be carried out by an authorised (\mathbf{i}) installer and comply with local installation regulations. If any questions, please contact your local electrical authority.
- Ensure that the GLB Wallbox's charging cable is (i) positioned so it will not be stepped on, driven over, tripped on, or subjected to damage or stress.
- (j) Unroll the charging cable to prevent it from overheating.
- Do not use cleaning solvents to clean any of the GLB (\mathbf{i}) Wallbox's components. The outside of the GLB Wallbox, the charging cable, and the end of the charging cable should be periodically wiped with a clean, dry cloth to remove accumulation of dirt and dust.
- Be careful not to damage the circuit boards or components (\mathbf{i}) during installation.
- Refer to local standards and regulations not to exceed (i) charging current limitations.
- The front cover must always be locked in its upper position (i) in order to ensure compliance with IP Code IP44.
- Avoid to install the GLB Wallbox in direct sunlight to avoid (\mathbf{i}) any heat-problems.
- To even out the load, it is important to rotate the phases (\mathbf{i}) when connecting several of GLB Wallboxes to the same system. Note that 1-phase charging is common in electric vehicles and L1 in the GLB is used for this purpose.
- (i) Ventilation signal from EV is not supported.
- (\mathbf{i}) Adapters for charging connectors are not allowed to be used.
- Cord extension sets for charging cable is not allowed to (i) be used.



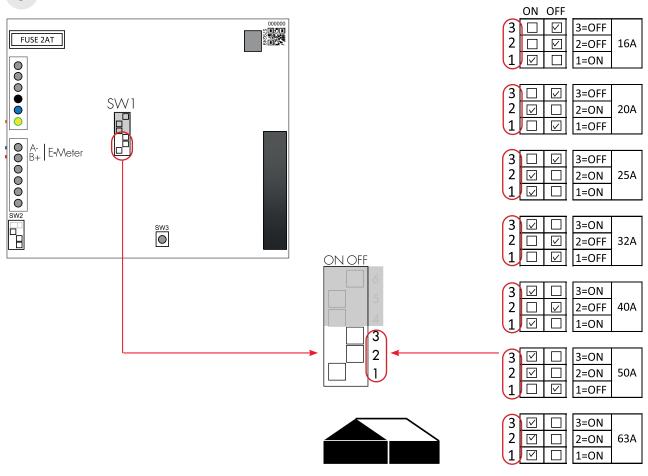


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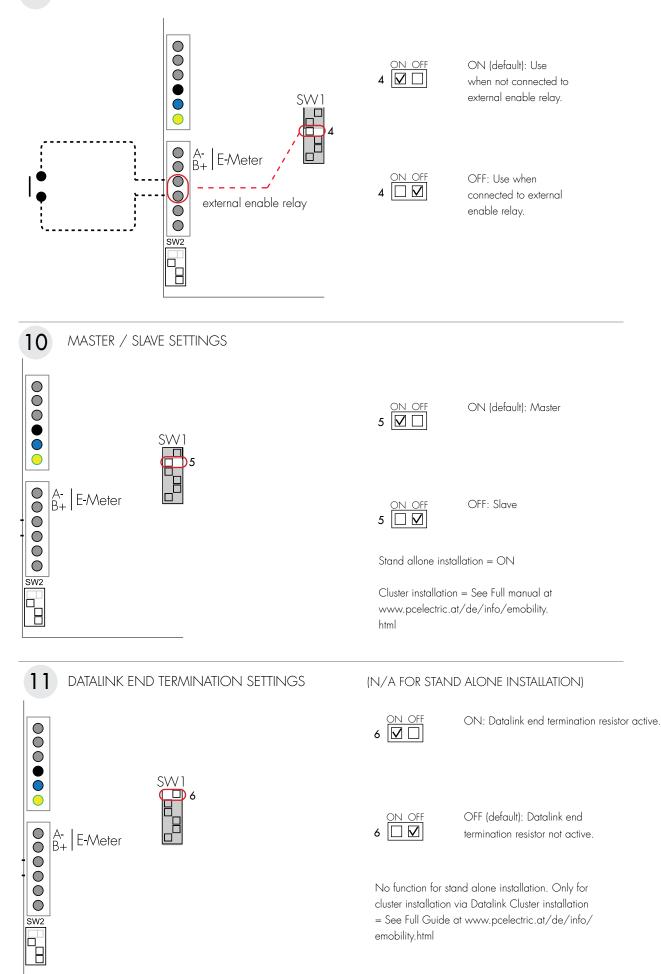
For full DLM manual and settings:

www.pcelectric.at/de/info/emobility.html

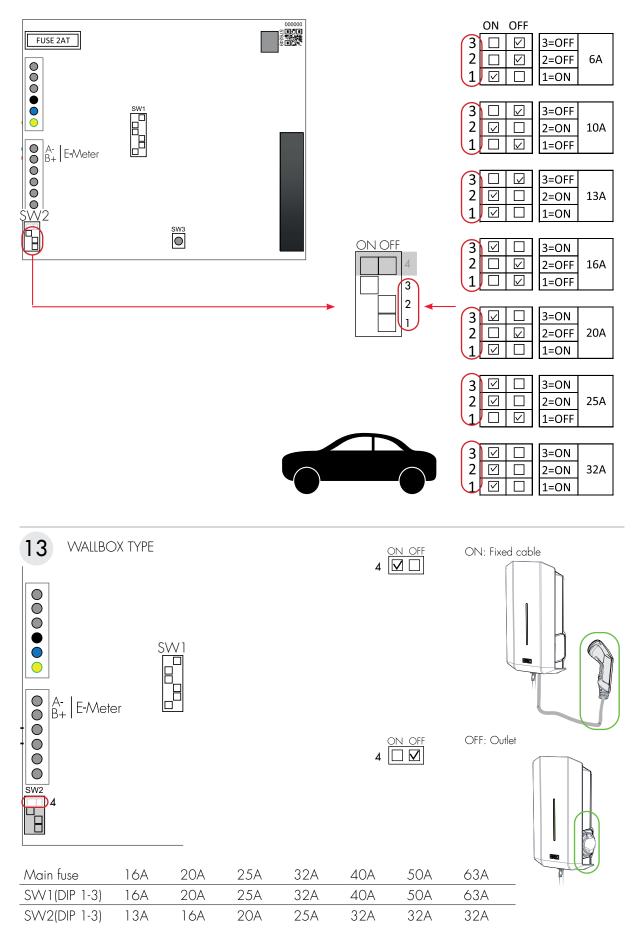
SET FUSE SIZE IN MAINS CABINET (FOR A WALLBOX)



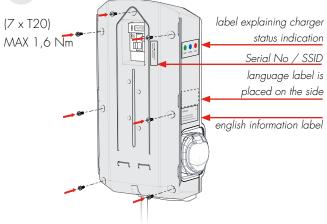
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DIP-SWITCH 2



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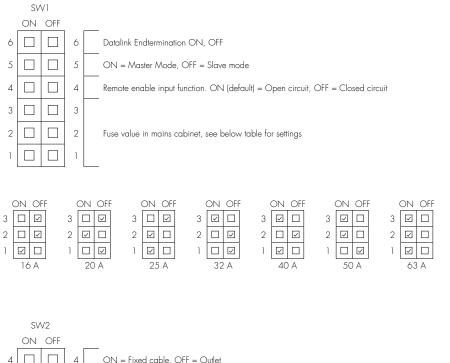
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ΕN

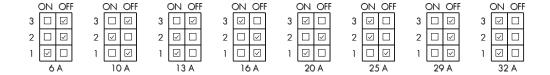
TROUBLESHOOTING / INFORMATION

| INDICATION | TYPE OF FAULT | MEASURE |
|--|---|---|
| Solid red light (O) | RCCB has tripped or EV earth check error is detected. | Reset. Refer to section on resetting the residual- current or personal protective current breaker. |
| Solid red light for 3 sec | RFID card not accepted. | Check RFID card |
| Red fast flash light | DC current >6mA - charging has stopped. | |
| Solid yellow light | Broken cable. | Check charging cable |
| Yellow flash light | Motor lock socket not in latched position. | Contact a qualified electrician. |
| Shifting red/green/yellow light | DC detection hardware error. | |
| Purple flash light | Chargebox overheating, charging has stopped. | After cool down, the charging process is restarted automatically. |
| White fast flash light | Search light indication. | Comparison with complete operating instructions |
| One quick white flash light repeating every minute O O O | Indicate an error in DLM function. | Auto reset occurs as soon as the connection to the energy meter is re-established. |
| Solid blue light | RFID accepted - waiting to start charging. | |
| Shifting blue light intensity | EV charging in progress. | |
| Shifting red/blue light | Software upgrade in progress. | |
| Shifting blue/black light | Chargesession not enabled due to scheduled mood. | |
| Solid green light | Charger in idle, waiting for EV to connect. | |
| Green flash light () | EV connected, wait to start charging or EV has finish charging. | |
| Green fast flash light | RFID reader is active, waiting to read card for authorization. | |

DIP-SWITCH INFORMATION







INSTALLATION OF STANDALONE GLB WALLBOX

(for installation of GLB in cluster, see User manual at www. pcelectric.at/de/info/emobility.html

| | | | Prot | ectio | n typ | e | |
|-------------------------|---------|---------|-----------------|-------|-------------|-------------|---------------------|
| GLB Туре | 1-phase | 3-phase | No RCBO or RCCB | RCBO | RCCB type A | RCCB type B | DC-fault protection |
| GLB37 ^{2) 4)} | • | | | • | | | |
| GLB74 ^{2) 4)} | • | | | • | | | |
| GLB22 1) 2) | | • | • | | | | |
| GLB22A ^{2) 3)} | | • | | | ٠ | | |
| GLB22B ³⁾ | | • | | | | • | |
| GLBDC37 4) | • | | | • | | | • |
| GLBDC74 4) | • | | | • | | | • |
| GLBDC11 ¹⁾ | | • | • | | | | • |
| GLBDC22 1) | | • | • | | | | • |
| GLBDC22A 3) | | • | | | • | | • |

- GLB Wallbox without RCCB or RCBO included in the enclosure must have Residual Current protection and must be protected with a max 32A fuse in the supply distribution box.
- ²⁾ GLB Wallbox without RCCB Type B fitted or DC fault protection in the enclosure must in accordance to IEC 60364-7-722 be protected with a Residual Current Device (RCD) Type B.
- ³⁾ 3-phase GLB Wallbox equipped with a Residual Current Circuit Breaker (RCCB) must be protected with a max 32A fuse in the supply distribution box.
- ⁴⁾ 1-phase GLB Wallbox fitted with a Residual Current Breaker with Overcurrent Protection (RCBO) can be connected in parallel. This group of chargers must be protected by a backup fuse in the distribution box. The backup fuse shall not exceed 125A.

- Select the appropriate group fuse (1x6A 3x32A) and cable area for the electrical installation. Some countries require earth fault breakers to be installed. Follow local country regulations and select the appropriate earth fault equipment for the electrical installation. NOTE! Due to high currents for a long time in the cable, there is a high risk of voltage drop if the cable is under-dimensioned which can damage the electronics in an EV.
- 2. Fill in the information in the handover report.
- Mount the GLB Wallbox according to the installation sketch, (figure 1-7)
- 4. Install the electrical power supply cable according to local regulations.
- Set dip switch SW1 to same (A) as the main fuse (16-63A). SW1 is located at the center left hand side of the main board. See figure 8-11.
- Set the dip switch SW2 according to your group fuse for the GLB Wallbox (6-32A). Dip switch 2 is located at bottom left corner of the main board. See figure 12-13.
- Fill in serial number in the handover report. See figure 14, Serial No / SSID label.
- 8. Mount the box cover on the enclosure + front lid, see figure 14-15.
- 9. Turn on the electrical power to the GLB Wallbox.
- For GLBW... and GLBDCW... models: Connect a mobile device (PC/Tablet/Mobile) to the GLB Wallbox Wifi network. You find SSID and password on the rating label. Type in 172.24.1.1 in your web browser and check that the GLB webinterface is visible. This action confirms that the GLB Wallbox communication module is working properly.
- Test the charger with a test instrument or test to charge an electric vehicle to ensure that the charger is working properly.
- Doublecheck that the handover report is filled in completely, sign with name, date and company that the warranty is valid.

NORMAL USE / CHARGING

Connect the charging cable to the EV. Charging will start instant if the EV is ready for charging. See your EV charging manual. When finishing charging, follow the car's instructions. After charging: Release the charging cable from your EV and place the charging cable at designated place.

BASIC LED INDICATIONS



GLB-SOFTWARE SERVICE/MAINTENANCE TROUBLESHOOTING/SUPPORT/FAQ

See User manual at www.pcelectric.at/de/info/emobility.html

TECHNICAL SPECIFICATIONS

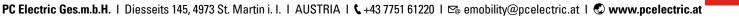
| Product type | All GLB models |
|---|-------------------------------|
| Standards / Directives | IEC 61851-1 and IEC 61439-7 |
| | (E RoHS |
| EMC Classification: | 2014/30/EU |
| Installation method: | Wall |
| Installation environment: | Indoor / Outdoor |
| Location type: | Non-restricted Access |
| Rated Voltage: | 230V / 400V 50Hz |
| Installation systems: | TT, TN and IT systems |
| Charging type: | Mode 3 |
| Charging method: | AC |
| Protection class: | IP44 |
| Mechanical impact resistance: | IK08 |
| Temperature range: | -25C - +40C |
| Weight: | 3-5,4 kg (depending on model) |
| Standard cable length (fixed cable version): | Standard 4,5m |
| Rated current withstand | 10kA |
| Rated short-time withstand current | 10kA |
| Rated conditional short-circuit current of an assembly | 10kA |
| Short-circuit protective device type | Туре С |
| Rated impulse withstand voltage | 4kV |
| Rated insulation voltage | 230/400V |
| Rated current of each circuit | 32A |
| Standby power | 6W |
| Rated diversity factor | RDF=1 |
| Pollution degree: | 3 |
| EMC environmental condition | A and B |

HANDOVER REPORT

Charging device for electric vehicles (EV)

| GLB: GTB: | |
|---|--|
| Serial No: | Software version: Communication Module: yes no |
| 2 Location Street: Exact placement: (e.g.: carport, garage, outdoors,) | |
| 3 Electrical installation | |
| Group Fuse (A): | Cable length: |
| 4 Settings DIP-Switch SW2 SW1 ON OFF 6 Image: A | 5 Function test performed with: EV test adapter: Electrical vehicle (EV): 6 Load management settings (DLM) Against building: In the supply line: Meter adressing: 2 100/101 Total current (A): |
| 8 Authorised Electrician () Company Name: | 9 Kunde Name: |

(i) All installation must be performed by a qualified electrician in accordance with local installation regulations. If you have any questions, contact your local regulatory authority.



13

PCE

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WARRANTY CONDITIONS

EU COUNTRIES (EXCEPT SWEDEN)

- 1. The product benefits from manufacturer's warranty. The applicable warranty period must be stated in purchase documents from your supplier.
- 2. The product must be installed by a certified installer / contractor.
- 3. Proper installation, storage and operation conditions must be obtained.
- 4. Warranties apply only to products installed in their original installation location.
- 5. Installation, use, care, and maintenance must be normal and in accordance with instructions.
- 6. Warranty requires a dated, fully filled in handover report by an certified installer/contractor. If the original installation date cannot be verified, then the warranty period begins ninety (90) days from the date of product manufacture (as indicated by the model and serial number).
- 7. Warranty does not cover damage occurred by incorrect use of equipment, use of any nonoriginal spare parts, lack of maintenance or faults caused by disassembly of the product or unauthorized persons intervention.
- 8. Warranty does not cover software or update thereof.
- Warranty does not cover aesthetic deficiencies caused by negligent manipulation or accidents (breaks or damage to the carcass).
- Warranty does not cover damage caused by external overvoltage from either grid or car/ charging object.
- Warranty does not cover damage caused by force major like for example but not limited to: floods, winds, fires, lightning, accidents, sabotage, military conflicts, terrorism, volcanos, earthquakes or corrosive environments.

NOTICE!

Completely filled out handover report required.

The warranty does not apply if the product has been subjected to an insulation test.





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