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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 GARO, we reserve the right to make product and software modifications at any time.

Latest manual can always be found at www.garoemobility.com/support



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.



The GLB Wallbox must be grounded according to local country installation requirements.



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



Turn off the electrical power at the circuit breaker before installing, configuring or cleaning of the GLB Wallbox.



Use the GLB Wallbox only within the specified parameters.



Never spray water or any other liquid directly at the GLB Wallbox. Never spray any liquid onto the charge handle or submerge the charge handle in liquid. Store the charge handle in the dock to prevent unnecessary exposure to contamination or moisture.



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



Do not modify the equipment installation or any part of the product.



Do not touch the GLB Wallbox's end terminals with fingers or any other objects.



Do not insert foreign objects into any part of the GLB Wallbox.

Cautions



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



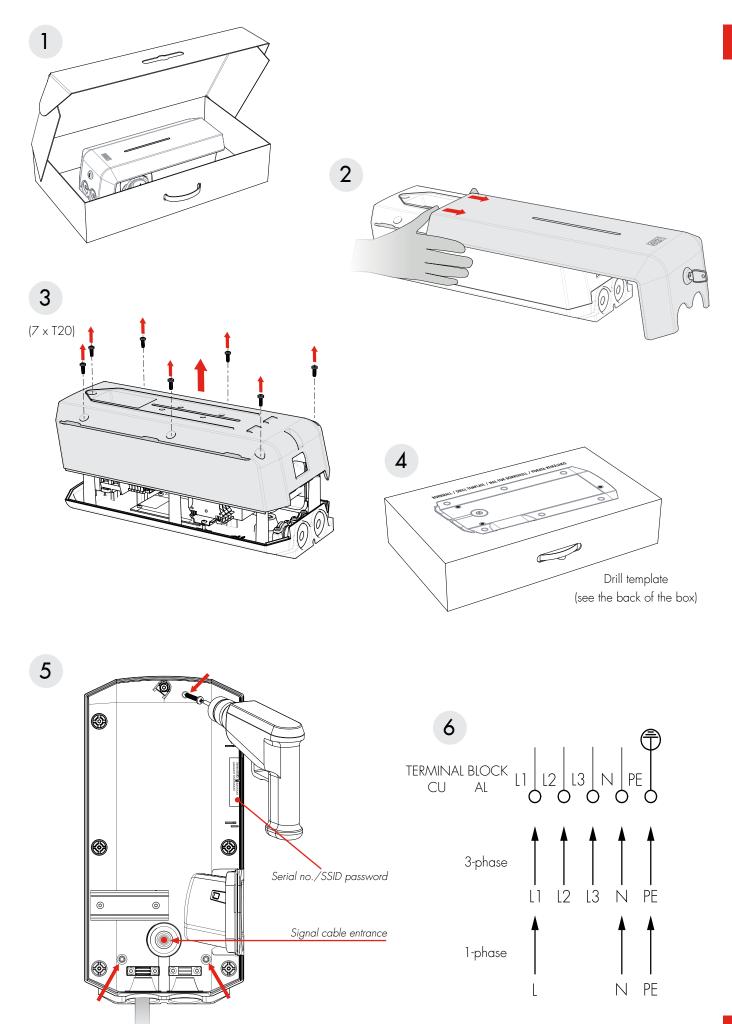
Incorrect installation and testing of the GLB Wallbox could potentially damage either the vehicle's battery and/or the GLB Wallbox itself.

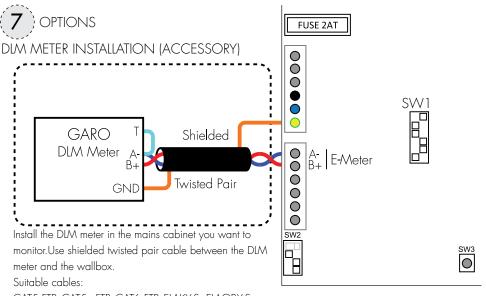


Do not operate the GLB Wallbox in temperatures outside its operating range – see technical specificatrions.

Notes

- All installation must be carried out by an authorised installer and comply with local installation regulations.
 If any questions, please contact your local electrical authority.
- (i) Ensure that the GLB Wallbox's charging cable is positioned so it will not be stepped on, driven over, tripped on, or subjected to damage or stress.
- i Unroll the charging cable to prevent it from overheating.
- i Do not use cleaning solvents to clean any of the GLB 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.
- i Be careful not to damage the circuit boards or components during installation.
- (i) Refer to local standards and regulations not to exceed charging current limitations.
- (i) The front cover must always be locked in its upper position in order to ensure compliance with IP Code IP44.
- (i) Avoid to install the GLB Wallbox in direct sunlight to avoid any heat-problems.
- To even out the load, it is important to rotate the phases 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.
- (i) Adapters for charging connectors are not allowed to be used.
- (i) Cord extension sets for charging cable is not allowed to be used.



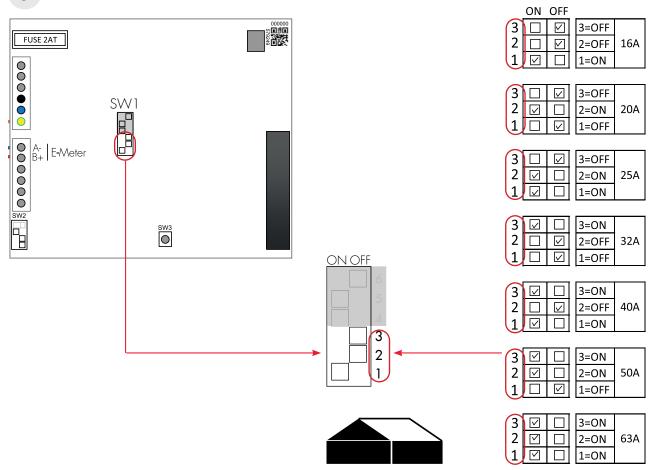


CAT5 FTP, CAT5e FTP, CAT6 FTP, ELAKY-S, ELAQBY-S or similar.

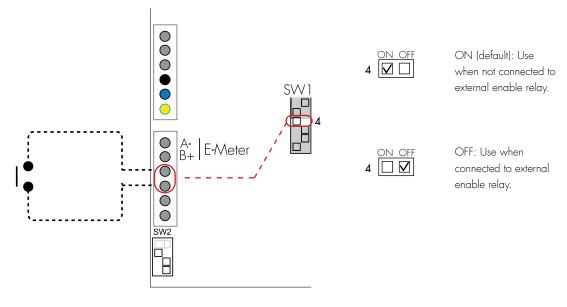
For full DLM manual and settings: www.garoemobility.com/support

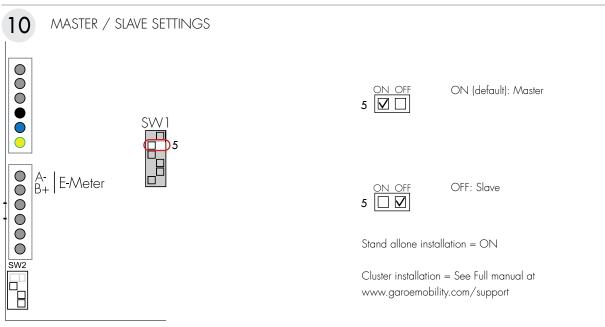


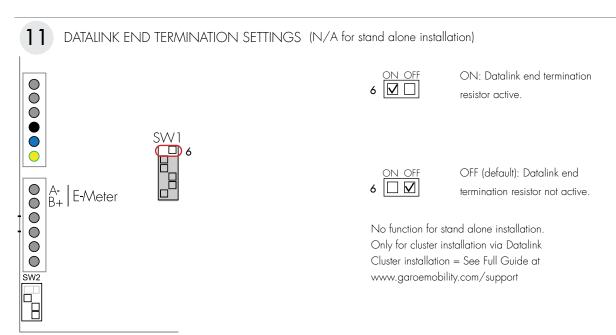
8 SET FUSE SIZE IN MAINS CABINET



9 REMOTE ENABLE SETTING

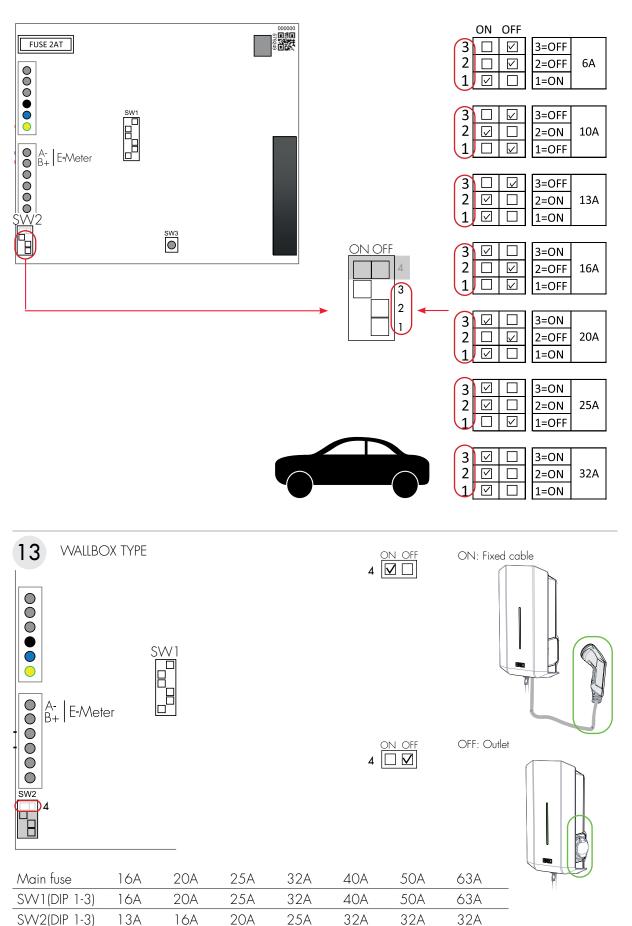


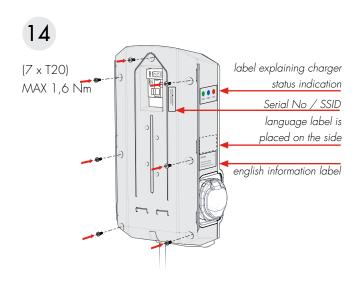




12 MAX VEHICLE CHARGING CURRENT (A)

SWITCH 2





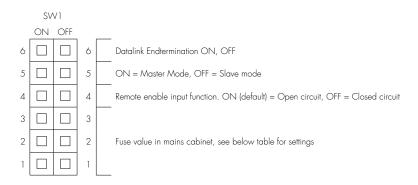


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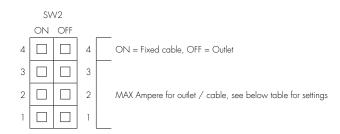
TROUBLESHOOTING

INDICATION	TYPE OF FAULT	MEASURE
Solid red light	RCCB has tripped or EV earth check	Reset. Refer to section on resetting the residual-
	error is detected.	current or personal protective current breaker.
Solid red light for 3 sec	RFID tag not accepted.	
Red fast flash	DC current >6mA - charging has stopped.	
Constant yellow light	Broken cable.	Check cable
Flashing yellow light	Motor lock socket not in latched position.	Contact a qualified electrician.
Shifting red/green/yellow	DC detection hardware error.	
Solid purple light	Chargebox overheating, charging has	
	stopped.	
White fast flash ((O))	Search light indication.	
One quick white flash repeating every minute	Indicate an error in DLM function.	
Solid blue light	RFID accepted - waiting to start	
	charging.	
Shifting blue intensity	EV charging in progress.	
Shifting red/blue	Software upgrade in progress.	
Shifting blue/black	Chargesession not enabled due to scheduled mood.	
Solid green	Charger in idle, waiting for EV to connect.	
Green slow flash	EV connected, wait to start charging or EV has finish charging.	
Green fast flash	RFID reader is active, waiting to read tag for authorization.	

DIP SWITCH INFORMATION



	ON (OFF	(NC	OFF	=		NO	OFF	(NC	OFF	(NC	OFF	(NC	OFF	(NC	OFF
3		v	3				3			3	Ø		3			3			3	V	
2		N	2	\langle			2	\square		2		K	2		abla	2	\Box		2	K	
1	\square		1		V		1			1		K	1	V		1		abla	1	N	
	16.	A		20	A	•		25	A		32	2 A		40	Α		50	Α		63	Α



| on off |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 3 🗆 🗹 | 3 🗆 🗹 | 3 🗆 🗹 | 3 🛛 🗆 | 3 🗵 🗆 | 3 🗵 🗆 | 3 🗆 🗹 | 3 🛛 🗆 |
| 2 🗆 🗹 | 2 🗵 🗆 | 2 🗵 🗆 | 2 🗆 🗷 | 2 🗆 🗹 | 2 🗵 🗆 | 2 🗆 🗹 | 2 🗵 🗆 |
| 1 🛛 | 1 🗆 🗹 | 1 🛛 | 1 🗆 🗹 | 1 🗵 🗆 | 1 🗆 🗹 | 1 🗆 🗸 | 1 🛛 🗆 |
| 6 A | 10 A | 13 A | 16 A | 20 A | 25 A | 29 A | 32 A |



INSTALLATION OF STANDALONE WALLBOX

(for installation of GLB in cluster, see User manual at www.garoemobility.com/support)

			Protection type							
GLB Type	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)}		•			•					
GLB22B ³⁾		•				•				
GLBDC37 4)	•			•			•			
GLBDC74 4)	•			•			•			
GLBDC111)		•	•				•			
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.
- 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-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 Warranty form.
- 3. 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.
- 7. Fill in serial number in the Warranty form. 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.
- 10. 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 Warranty Form 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











Solid green light: ready for charging Flashing green light: GLB Wallbox waiting for start signal from electric vehicle Shifting blue light intensity: charging

Other LED indications: see User manual at www.garoemobility.com/support

Software GLB

See User manual at www.garoemobility.com/support

Service/Maintenance

See User manual at www.garoemobility.com/support

Troubleshooting/Support/FAQ mm

See User manual at www.garoemobility.com/support

TECHNICAL SPECIFICATIONS

Product type	All GLB models
Standards / Directives	IEC 61851-1 and IEC 61439-7
	(EROHS
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 Charging
Protection class:	IP44
Mechanical impact resistance:	IKO8
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
Rated diversity factor	RDF=1
Pollution degree:	3
EMC environmental condition	A and B

WARRANTY FORM/GARANTIBLANKETT

GTB Model:	
ELECTRICAL INS	TALLATION DATA / ELEKTRISK INSTALLATION INFORMATION
Group fuse (A): Gruppsäkring (A): Supply cable dimension: Area matningskabel: Cable length: Längd matningskabel:	
RFID yes/no: RFID ja/nej: Communication Module yes/no: Kommunimationsmodul ja/nej:	OPTION MODULES / OPTIONS-MODULER
	SETTINGS / INSTÄLLNINGAR
Mark existing positions: Markera nuvarande inställningar:	SW1 SW2 ON OFF ON OFF 6
Serial No: Serie nr:	
	FUNCTION TEST / FUNKTIONSTEST
Testbox / EV (model) Testlåda / EV (modell)	
Date: Datum: Sign Installer: Signatur installatör: Company Name: Företagsnamn: Owner / Customer Name: Ägare / kundens namn: Installation adress: Installationsadress:	

GARANTIVILLKOR/ 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 Warranty form 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).
- 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.
- 9. 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.
- 11. 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.

SVERIGE/SWEDEN

Garantivillkor enl ALEM 09.

OBS! Fullständigt ifylld garantiblankett krävs.

Garantin gäller ej om produkten varit utsatt för ett isolationstest, sk meggning.