

Wallbox Prime Classic

T2C model code 40120

**Manual
Installation - maintenance - use**



v4

Content:

- 0 Preliminary operations (warnings)
- 1 Introduction
- 2 Safety information
- 3 Specifications
- 4 Mechanical installation
- 5 Components description
- 6 Electrical installation
- 7 LED indicators
- 8 Charging procedure
- 9 Periodic controls



Before proceeding, read the instructions carefully to ensure a correct installation of the charging station.

The wallbox installation must be performed only by qualified personnel. During the installation and/or maintenance operations, remove input power and use protective gloves and goggles.

0 Preliminary operations (Warnings)

1. Before proceeding with the wallbox installation, make sure that the power supply voltage corresponds to the nominal one, and that the quality of the supplied electricity is compliant with the EN50160 standard.
2. Install surge protective devices with an earth connection in the main power switchboard as prescribed by the installation zone according to the EN62305-1/4 standard.
3. At the end of the installation, use an appropriate instrument to verify the earth connection's correctness.
4. The switchboard that powers the wallbox should include a C-curve magnetothermic circuit breaker (MCB) for protection against overloads and short circuits and a 30mA B-type residual current breaker (RCD).
5. Adjust the output power by means of the DIP switches in order to not exceed the available KW.

1 INTRODUCTION

This manual contains all the necessary information for the safe use of the **Detas EVchargers Prime** system for electric vehicle charging and will guide you to obtain the best performance and use from the system.

Our **Detas EVchargers** charging stations employ the latest technology and provide the most advanced service on the EV charging market.

The **Wallbox Prime** charging system is designed to be easily installed both outdoors and in covered private parking lots, in order to charge all the EV brands on the market in MODE 3 (according to the European IEC 61851-1 standard), simply by plugging the connection cable with a type-2 connector.

2 SAFETY INFORMATION

- The wallbox must not be installed in areas with a risk of explosions.
- The wallbox is designed to be installed both in open and closed areas. It must always be installed safely and with suitable protections.
- In case the wallbox is installed outdoors, it is recommended to employ a roof for direct protection from water.
- Do not install the wallbox in areas where it can be damaged by falling objects.
- The wall surface where the wallbox will be positioned must withstand the mechanical forces to which it is subjected.
- Do not employ this wallbox for purposes other than electrical vehicle charging uses indicated in the IEC 61851 standard.
- Do not modify the unit. In case of modifications, **Detas EVchargers** will reject all responsibility and the warranty will become invalid.
- Follow the electrical safety standards rigorously.
- Do not attempt repairs or manipulations with the wallbox connected to electricity.
- Only trained and qualified personnel has access to the low-voltage electrical components inside the device.
- Make qualified technicians only check the wallbox every year.
- Remove any item with signs of damage that can be dangerous for a human (broken plugs, lids that do not close, etc...).
- Use only **Detas EVchargers** replacement parts.
- Do not use this product if the EV latch or connector is broken, cracked, open, or showing signs of damage.
- Before proceeding with the installation, make sure that the power supply voltage corresponds to the nominal one for the device and that the quality of the electricity supplied to the wallbox is compliant with the EN50160 standard.
- Install surge protective devices with an earth connection in the main power switchboard, as prescribed by the installation zone according to the EN62305-1/4 standard.

Notes:

The **Prime** wallbox mainly employs Type 2 sockets.

The charging station connectors are compliant with the EN 62196 standard.

It is forbidden to lengthen/join the connector wires without authorization from the manufacturer.

No operations are allowed apart from those described in the present manual for solving plug-related problems.

TYPE 2



3 SPECIFICATIONS

Input voltage: single-phase 230VAC \pm 10% 50/60Hz (L,N,PE)

Mechanical resistance: IK09

Protection degree: IP65

Housing material: PC

Operating temperature: from -25°C to +45°C

Storage temperature: from -40°C to +60°C

Operating humidity: from 5% to 95% without condensation

Signaling: RGB color indicator

Meters: MID certified

Dimensions: 205 x 255 x 112 mm

Weight: 4 kg

Pedestal for wallbox: On request

4 MECHANICAL INSTALLATION

4.1) INSTRUMENTS REQUIRED FOR THE INSTALLATION (NOT PROVIDED)

N°1 Flat screwdriver	N°1 Philips screwdriver	N°1 Electric drill	N°1 Electric screwdriver	N°1 wall drill bit D9mm	N°6 Fischer M4
					

4.2) MECHANICAL INSTALLATION PROCEDURE

- ① Open the frontal screws. The correct screwdriver to be used is a small flat one, such that it can enter into the screw by insertion until the bottom of the slot, where the plastic is thicker.
If a large flat screwdriver is used, it will stop at the top of the screw, which can become damaged because there the plastic thickness is smaller.

- ② Open the lid towards the right by paying utmost attention not to tear the connection cables

- ③ Mount the Wallbox on the wall (see wall-mounting dimensions on page 7)



- A Using Fischer M4 / drill-bit diameter 9 mm wall anchors

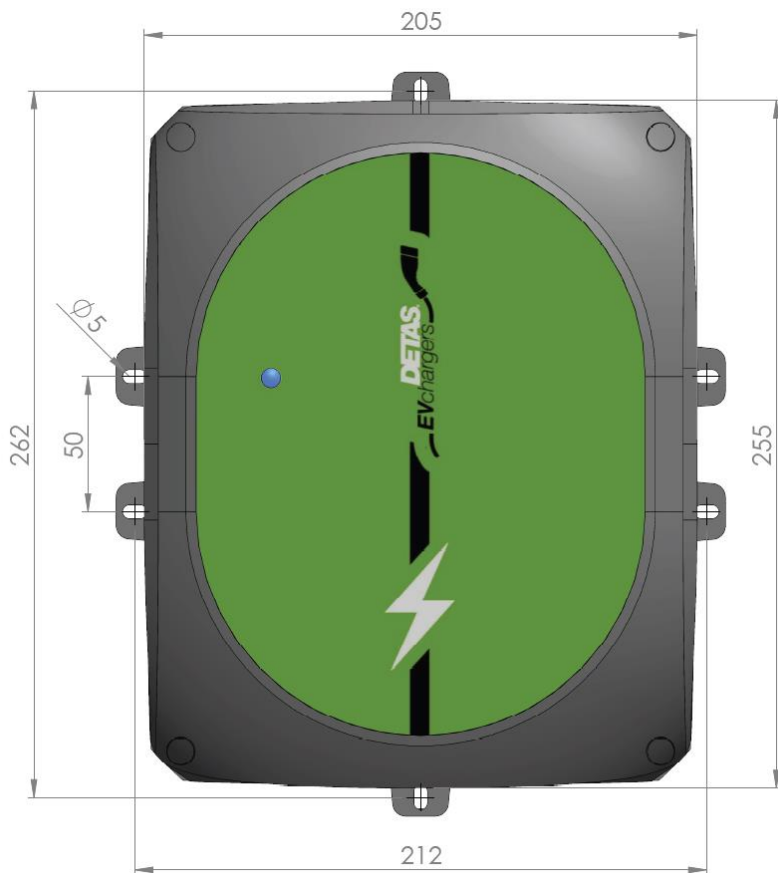
Warning:

- It is recommended to use a screwdriver to execute the last fixation turns
- Make sure that the electric screwdriver does not damage the cables

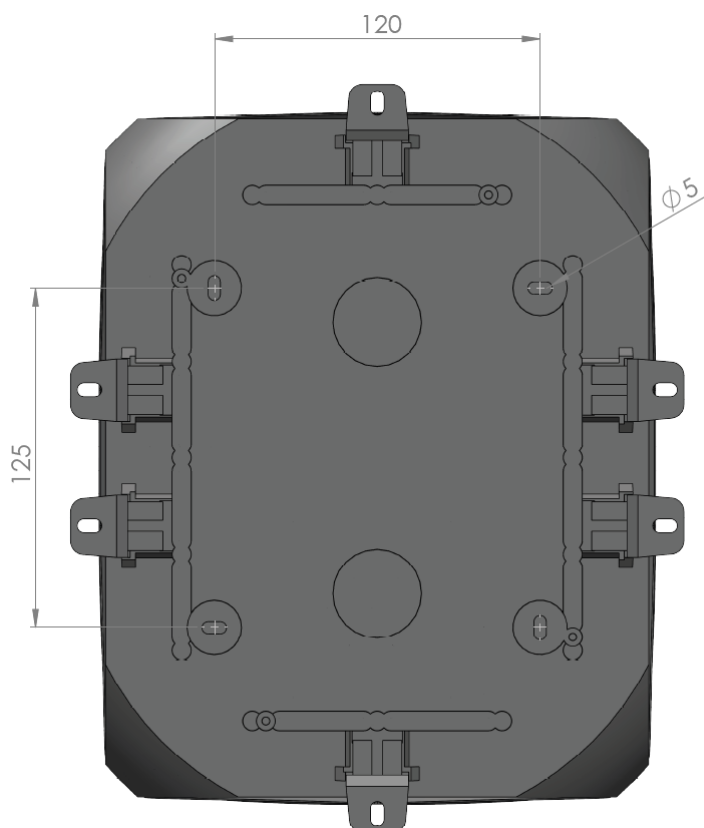
- B Using the provided side brackets for a protrusion fixation



4.3) WALL MOUNTING DIMENSIONS



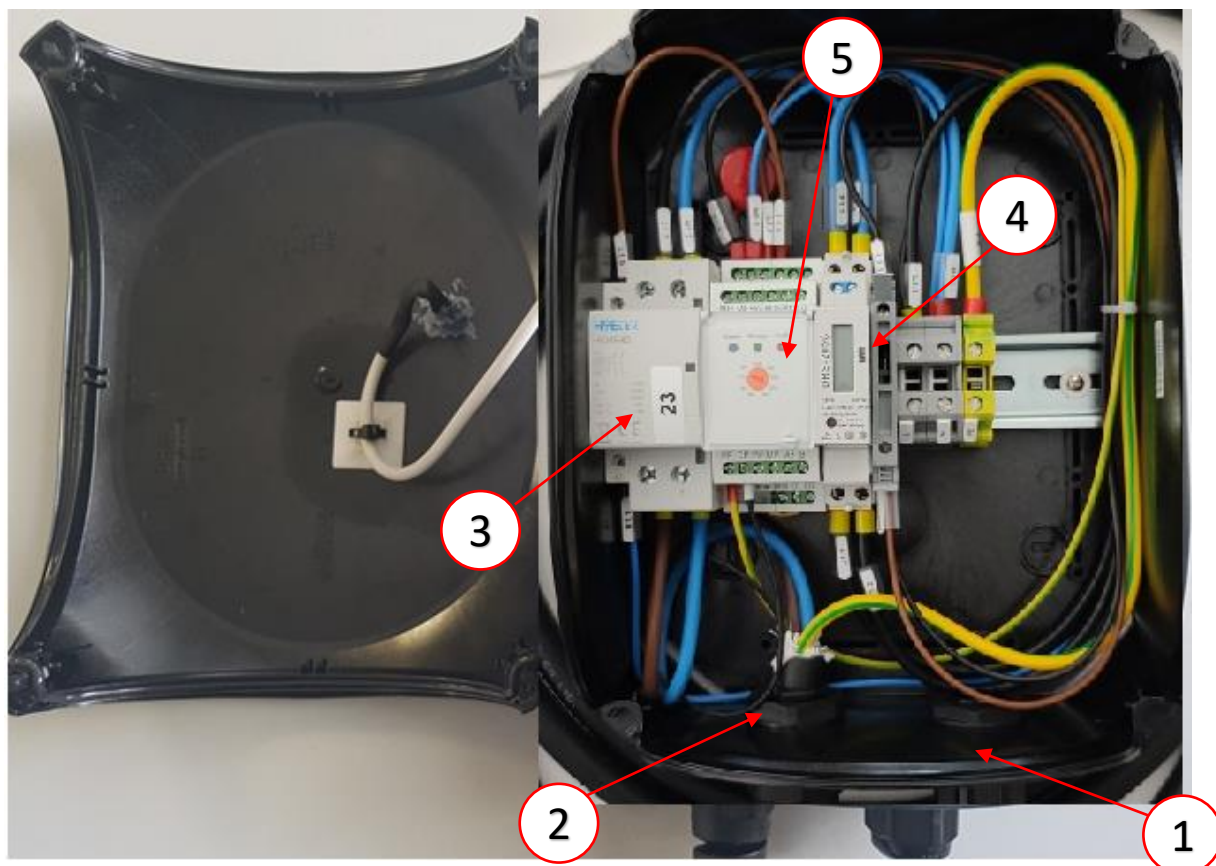
**Front view
(external mounting)**



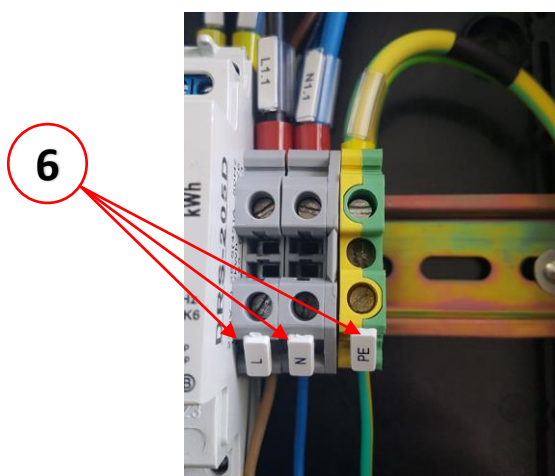
**Rear view
(internal mounting)**

5 COMPONENTS DESCRIPTION

- 1 Power supply cables inlet
- 2 Vehicle connector cable outlet
- 3 Single-phase relay
- 4 MID certified meter
- 5 Charge control module – Mode 3



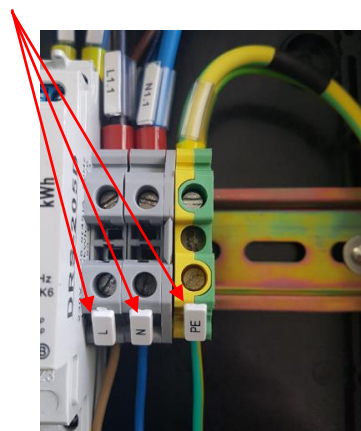
- 6 Power supply terminals L , N , PE



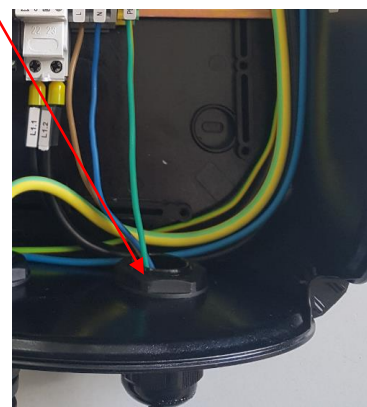
6 ELECTRICAL INSTALLATION

Installation procedure:

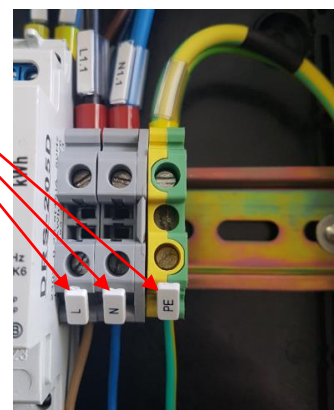
- 1) Verify that all the terminal labels are correctly positioned (as in the image below) and have not fallen off during transportation.



- 2) Insert the **AC** supply cables into the free wallbox cable gland.

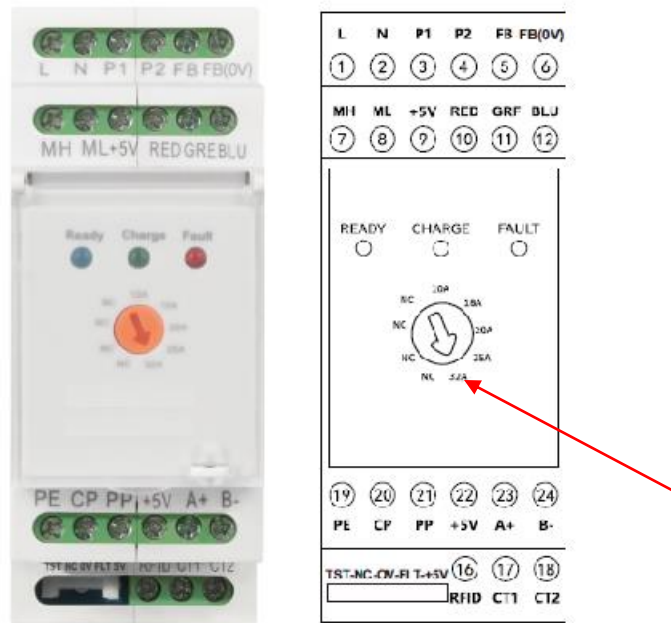


- 3) Connect the power supply **PE** , **L** , **N** to the respective terminals.

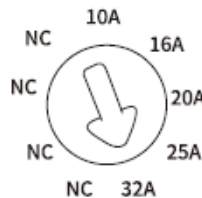


Note: the screw terminal for AC supply cabling is compatible with cables up to 10 mm². Using a cable with single sections of at least 6 mm² is recommended. In case the distance between the junction box and the respective magnetothermal and differential switch is greater than the standard distance, it may be necessary to increase the section of the employed cables according to a suitable calculation.

4) The preset standard power for this wallbox is 25 A / about 5.8 kW

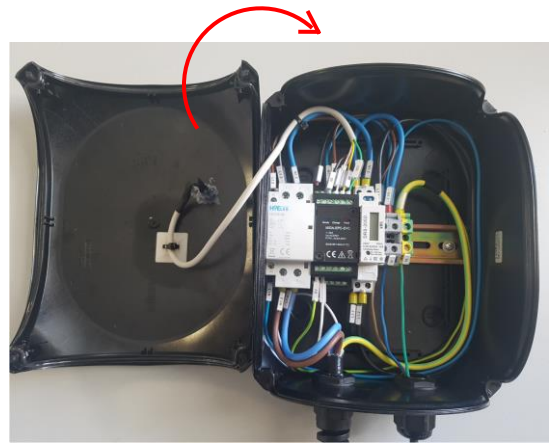


- To adjust the output power to other values, open the cover and adjust the current as required
- Select the DIP switch according to the following table:



2.3KW	3.7KW	4.6KW	5.8KW	7.4KW
10A	16A	20A	25A	32A

5) Close the wallbox cover



6) Carefully fasten the plastic screws with a flat screwdriver.



Note: for the electrical safety device installation to protect the wallbox, a 40A 30mA magnetothermic residual circuit breaker (C-curve for the MCB and B-type for the RCD) is recommended. The corresponding product code in the EVchargers catalog is 245.

7 LED INDICATORS

STEADY RED LED

Offline / Connection ongoing /
Generic error



FLASHING GREEN LED

Connected, ready for charging



STEADY BLUE LED

Charging



8 CHARGING PROCEDURE

(9.1) When the green light is flashing, it means that the unit is ready and available for charging



(9.2) Connect the cable of the **Wallbox Prime Classic** to the vehicle to start charging



(9.3) Next, the indicator LED light will turn blue.



(9.4) Once the charging is finished, it is possible to disconnect the cable or plug from the vehicle by placing it back into its slot.

9 PERIODIC CONTROLS

The PRIME Wallbox has to be periodically verified by performing routine checks and maintenance operations.

In particular, daily maintenance contents and operations forbidden to unauthorized personnel are:

- It is forbidden to access the charger files or turn on/off the power supply for the non-professionals/not-in-charge personnel.
- Do not use floating cables, connecting cables or bridges.
- Verify the operating state of the charging station monthly regarding RCCB, switches, charge connectors, modules, etc.
- Use a dry cloth to wipe the connector dirt monthly, leaving the plug dry and clean.
- Verify the tightening of all the cable connectors for all the internal components yearly.

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