

Green Cell EV14

Green Cell GC PowerBox Wallbox 22kW Type 2 EV Charger User Manual

Model: EV14

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your Green Cell GC PowerBox Wallbox 22kW Type 2 EV Charger. Please read this manual thoroughly before installation and use, and retain it for future reference. This charger is designed for electric vehicles (EVs) and plug-in hybrid electric vehicles (PHEVs) equipped with a Type 2 charging socket.

2. SAFETY INFORMATION

Important Safety Instructions:

- Installation must be performed by a qualified electrician in accordance with all local and national electrical codes and regulations.
- Do not attempt to open, disassemble, repair, or modify the charger. This may result in electric shock, fire, or other hazards.
- Ensure the charging cable and connector are free from damage before each use. Do not use if damaged.
- Keep children and pets away from the charging area during operation.
- Do not immerse the charger or charging cable in water or other liquids.
- The charger is equipped with a built-in RCD type A + 6mA DC for enhanced safety.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Green Cell GC PowerBox Wallbox 22kW Type 2 EV Charger with integrated 6m Type 2 cable

- Drilling template for mounting
- Set of screws and dowels for installation
- Holder for convenient storage of the charging cable



Image: Mounting accessories for the Green Cell GC PowerBox Wallbox, including screws, wall plugs, and a cable holder.

4. PRODUCT OVERVIEW

The Green Cell GC PowerBox Wallbox is a robust and efficient charging solution for electric vehicles. It features a durable aluminum housing and an LCD screen for monitoring charging parameters.

Wallbox Type 2

22kW | 32A | 3-phase

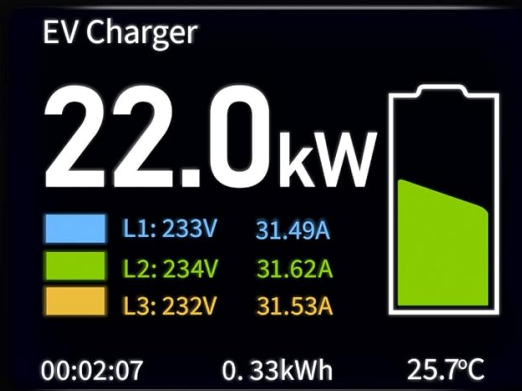


Image: Front view of the Green Cell GC PowerBox Wallbox 22kW EV Charger, highlighting its design and display.

4.1. LCD Display and LED Indicator

The integrated LCD display provides real-time information on charging status, power, voltage, current, and temperature. An LED indicator provides quick visual feedback on the charger's operational status.

LCD Display & LED Indicator



GC

**All relevant charging
data in sight**

Image: Detailed view of the LCD display, showing charging parameters such as power (22.0kW), voltage, current, and energy delivered.

4.2. Type 2 Connector

The charger is equipped with a 6-meter Type 2 connector (IEC 62196-2), which is the European standard for EV charging. The connector features an ergonomic design and is built for durability, with a lifespan of up to 10,000 connections.

Type 2 connector (IEC 62196-2) - European Standard



Image: The Type 2 charging connector and its 6-meter cable, designed for durability and ease of use.

4.3. Environmental Durability

The charger's aluminum housing is designed to be extremely durable, tight, and waterproof with an IP66 rating, allowing it to operate reliably in various weather conditions, from -40°C to +55°C.

Ready to use
in all conditions



Image: The Green Cell Wallbox is shown to be operational in a wide temperature range, from -40°C to +55°C.

5. SPECIFICATIONS

Feature	Specification
Brand	Green Cell
Model Number	EV14
Item Type Name	EV charger
Color	Wallbox Type 2
Charging Power	22kW (also supports 11kW/7.2kW)
Amperage	32 Amps
Connector Type	Type 2 Male (6m cable)
Number of Ports	2 (internal connections for 3-phase power)

Compatible Devices	Electric Vehicles with Type 2 socket (e.g., Model 3/S/X/Y, ID.3, ID.4, i3, 500e, EV6, E-Tron, ZOE, Mach-E)
Charging Time (approx.)	3-4 hours (22kW), 5-7 hours (11kW) for 5-90% charge
Safety Features	Built-in RCD type A + 6mA DC
Environmental Protection	IP66 (waterproof)
Operating Temperature	-40°C to +55°C
Item Weight	1 Kilogram

6. SETUP AND INSTALLATION

Professional installation by a certified electrician is mandatory for this 3-phase 22kW charger. Incorrect installation can lead to serious injury, property damage, or malfunction of the device.

6.1. Mounting the Wallbox

1. Select a suitable mounting location that is accessible, protected from direct impact, and within reach of your vehicle's charging port.
2. Use the provided drilling template to mark the mounting holes on the wall or post.
3. Drill the holes and insert the supplied dowels.
4. Securely attach the Wallbox to the mounting surface using the provided screws.
5. Install the cable holder in a convenient location near the Wallbox to store the charging cable when not in use.

6.2. Electrical Connection

The Green Cell GC PowerBox Wallbox requires a 3-phase electrical connection. The internal wiring connections are designed for this purpose.



Image: Internal view of the Green Cell Wallbox, illustrating the electrical connection points for the power supply.



Image: Detailed view of the multi-core electrical cable, showing individual wires for phase, neutral, and ground connections.

The electrician will connect the Wallbox to your electrical panel, ensuring proper grounding and circuit protection. Refer to the wiring diagram provided with the product for specific connection details.

7. OPERATING INSTRUCTIONS

7.1. Initiating a Charge

1. Ensure the Wallbox is powered on and the LED indicator shows a ready status.
2. Open the charging port cover on your electric vehicle.
3. Firmly insert the Type 2 connector from the Wallbox into your vehicle's charging port. Ensure it clicks into place.
4. The Wallbox LCD display will show charging parameters, and the vehicle's dashboard will indicate that charging has begun.



Image: The Green Cell Wallbox actively charging an electric vehicle, demonstrating a typical operational setup.

7.2. Monitoring Charging

The LCD display provides real-time data, allowing you to monitor the charging process. This includes current power (kW), voltage (V), current (A) per phase, total energy delivered (kWh), and internal temperature.

7.3. Ending a Charge

1. Once your vehicle is fully charged or you wish to stop charging, unlock the charging cable from your vehicle (this process varies by vehicle model).
2. Carefully remove the Type 2 connector from the vehicle's charging port.
3. Return the charging cable to its holder on the Wallbox.

8. MAINTENANCE

The Green Cell GC PowerBox Wallbox is designed for minimal maintenance. Follow these guidelines to ensure longevity:

- **Regular Cleaning:** Wipe the exterior of the Wallbox with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Cable Inspection:** Periodically inspect the charging cable and connector for any signs of wear, cuts, or damage. If any damage is found, discontinue use and contact support.
- **Environmental Check:** Ensure the area around the Wallbox remains clear of obstructions and debris.

9. TROUBLESHOOTING

If you encounter issues with your Green Cell GC PowerBox Wallbox, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Charger not starting	No power to the Wallbox; cable not properly connected; vehicle not ready to charge.	Check circuit breaker; ensure cable is fully inserted; verify vehicle's charging status.
Slow charging speed	Vehicle's charging limit; grid power fluctuations.	Check vehicle settings; consult electrician if persistent.
Error message on LCD	Internal fault; external issue (e.g., overcurrent, overvoltage).	Note the error code and contact Green Cell support.
Cable stuck in vehicle	Vehicle lock mechanism engaged.	Ensure vehicle is unlocked; refer to vehicle manual for emergency release.

For issues not covered here, or if troubleshooting steps do not resolve the problem, please contact Green Cell customer support.

10. WARRANTY AND SUPPORT

The Green Cell GC PowerBox Wallbox 22kW Type 2 EV Charger comes with a **2 Year Manufacturer Guarantee**.

For warranty claims, technical support, or further assistance, please contact Green Cell customer service through their official website or the retailer from whom you purchased the product. Please have your product model number (EV14) and proof of purchase ready when contacting support.

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