

## ABB TAC-W22-G5-R-C-0

# ABB Terra AC Wallbox User Manual

Model: TAC-W22-G5-R-C-0

## 1. INTRODUCTION

This manual provides essential information for the safe and efficient use of your ABB Terra AC Wallbox, model TAC-W22-G5-R-C-0. This device is designed for charging electric vehicles and is suitable for residential and commercial applications. Please read this manual thoroughly before installation and operation to ensure proper functionality and safety.

## 2. SAFETY INFORMATION

### Important Safety Instructions:

- Installation must be performed by a qualified and licensed electrician in accordance with all local and national electrical codes and regulations.
- Do not attempt to open, disassemble, or modify the charging station. There are no user-serviceable parts inside.
- Ensure the charging station is properly grounded.
- Do not use the charging station if it is damaged, cracked, or shows any signs of malfunction.
- Keep children and pets away from the charging station during operation.
- Avoid contact with water or other liquids. Do not operate the device with wet hands.

## 3. PRODUCT COMPONENTS

The ABB Terra AC Wallbox consists of the main charging unit and an integrated charging cable with a connector. Key components include:

- **Charging Unit:** The main enclosure housing the electronics and user interface.
- **Charging Cable:** Permanently attached cable for connecting to the electric vehicle.

- **Charging Connector:** The end of the cable that plugs into the vehicle's charging port.
- **Status Indicators:** LED lights on the unit indicating operational status (e.g., charging, standby, error).



Figure 3.1: Overview of the ABB Terra AC Wallbox. This image displays the white wall-mounted charging unit with the ABB logo, a black charging cable coiled around it, and a black charging connector resting on top of the unit. The unit also features a series of indicator lights on its right side and a hexagonal 'C' symbol on its front.

## 4. SETUP AND INSTALLATION

The ABB Terra AC Wallbox requires professional installation. It is crucial that installation is carried out by a certified electrician to ensure compliance with all electrical safety standards and local regulations. The installation process typically involves:

1. **Site Assessment:** Determining the optimal location for installation, considering proximity to the electrical panel and vehicle parking.
2. **Mounting:** Securely mounting the wallbox to a suitable surface.
3. **Electrical Connection:** Wiring the wallbox to the main electrical supply, ensuring proper grounding and circuit protection.
4. **Configuration:** Initial setup and configuration of the device, which may include network connection and user authentication settings.

Refer to the detailed installation guide provided separately for electricians for specific wiring diagrams and mounting instructions.

## 5. OPERATING INSTRUCTIONS

Once installed and configured, operating the ABB Terra AC Wallbox is straightforward:

1. **Ensure Power:** Verify that the wallbox is powered on and the status indicator lights are active (e.g., green for standby).
2. **Connect to Vehicle:** Open the charging port on your electric vehicle. Take the charging connector from the wallbox and firmly insert it into the vehicle's charging port.
3. **Initiate Charging:** The wallbox will typically detect the connection and automatically begin charging. Status indicators will change to show active charging (e.g., blinking blue). Some models may require authentication via an RFID card or mobile app.
4. **Monitor Charging:** Observe the status indicators on the wallbox and your vehicle's dashboard to monitor the charging progress.
5. **End Charging:** Once charging is complete or you wish to stop, follow your vehicle's instructions to safely disconnect the charging cable. Typically, you may need to unlock the connector from the vehicle before pulling it out.
6. **Store Cable:** Return the charging connector to its designated holder on the wallbox to keep it clean and protected.

## 6. MAINTENANCE

The ABB Terra AC Wallbox is designed for minimal maintenance. However, regular checks can help ensure its longevity and safe operation:

- **Cleaning:** Periodically wipe the exterior of the charging station with a soft, damp cloth. Do not use abrasive cleaners, solvents, or harsh chemicals. Ensure the unit is powered off before cleaning.
- **Cable and Connector Inspection:** Regularly inspect the charging cable and connector for any signs of wear, damage, cracks, or discoloration. If any damage is observed, discontinue use immediately and contact a qualified service technician.
- **Ventilation:** Ensure that the ventilation openings (if any) on the unit are not blocked to prevent overheating.
- **Professional Inspection:** It is recommended to have the charging station inspected by a qualified electrician periodically, especially if you notice any unusual behavior or performance issues.

## 7. TROUBLESHOOTING

If you encounter issues with your ABB Terra AC Wallbox, try the following basic troubleshooting steps:

Problem	Possible Cause	Solution
No power to the unit	Circuit breaker tripped; power outage	Check the circuit breaker in your electrical panel and reset if tripped. Verify local power supply.

Problem	Possible Cause	Solution
Charging does not start	Connector not fully inserted; vehicle not ready to charge; authentication issue	Ensure the connector is fully seated. Check vehicle's charging settings. If applicable, re-authenticate with RFID card/app.
Error indicator light is on	Internal fault; overcurrent; ground fault	Disconnect the vehicle, power cycle the wallbox (turn off at breaker for 1 minute, then turn on). If error persists, contact a qualified technician.
Slow charging	Vehicle settings; grid limitations	Check vehicle's charging settings. Ensure no other high-power appliances are drawing significant current.

For issues not resolved by these steps, or for any complex technical problems, please contact a qualified electrician or ABB customer support.

## 8. TECHNICAL SPECIFICATIONS

Specification	Value
Brand	ABB
Item Model Number	2020
Product Dimensions	48 x 20 x 6 cm; 7 kg
AC Adapter Current	32 Ampere
Material	Aluminium
Phase Type	Three-phase
First Available Date	November 1, 2021
Guaranteed Software Updates Until	Unknown
ASIN	B0912DPKS5

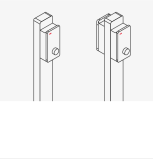


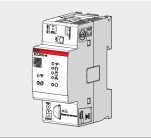
## 9. WARRANTY AND SUPPORT



For information regarding the warranty period and terms for your ABB Terra AC Wallbox, please refer to the warranty documentation provided at the time of purchase or contact your authorized ABB dealer or installer. Warranty details may vary by region and specific purchase conditions.

For technical support, service, or to report an issue, please contact ABB customer service or your local ABB representative. You may find contact information on the official ABB website or through your product supplier.

*Please retain your proof of purchase for warranty claims.*

Related Documents - TAC-W22-G5-R-C-0

<div><div>ABB</div><div><div>Product literature</div><div>Pedestal for Terra AC wallbox</div><div>Installation manual</div></div><div></div><div><div>1</div><div>1</div></div></div>	<p><a href="#">ABB Terra AC Wallbox Pedestal Installation Manual</a></p> <p>This installation manual provides detailed instructions for installing ABB Terra AC Wallbox pedestals, including single and back-to-back configurations. It covers safety precautions, intended use, location requirements, positioning, anchoring, grounding, and mounting procedures for electric vehicle charging stations.</p>
<div><div>ABB</div><div><div>Product literature</div><div>Pedestal for Terra AC wallbox</div><div>Rectangular back-to-back 6AGC082326</div></div><div></div><div><div>1</div><div>1</div></div></div>	<p><a href="#">ABB Terra AC Wallbox Pedestal Quick Start Guide - Model 6AGC082326</a></p> <p>Quick start guide for installing the ABB Terra AC Wallbox rectangular back-to-back pedestal (model 6AGC082326). Includes parts list and step-by-step installation instructions.</p>
<div><div>ABB</div><div><div>Product literature</div><div>Terra AC – Solar Charging Mode</div><div>Configuration</div></div><div></div><div><div>1</div><div>1</div></div></div>	<p><a href="#">ABB Terra AC Solar Charging Mode Configuration Guide</a></p> <p>This guide provides detailed instructions for configuring the Solar Charging Mode on ABB Terra AC electric vehicle chargers, including setup, operational modes, energy meter integration, and software configuration.</p>
<div><div>ABB</div><div><div>Product literature</div><div>Terra station management system</div><div>SCU200</div><div>User manual</div></div><div></div><div><div>1</div><div>1</div></div></div>	<p><a href="#">ABB SCU200 User Manual: InSite Energy Management System</a></p> <p>Comprehensive user manual for the ABB SCU200 InSite Energy Management System. Covers installation, configuration, technical specifications, system overview, and communication interfaces for energy monitoring and management.</p>

 The image shows the cover of the ABB MicroSCADA X SYS600 10.0 Installation and Administration Manual. It features the ABB logo at the top, the title 'MicroSCADA X SYS600 10.0 Installation and Administration Manual' in the center, and a photograph of a person working on a computer at the bottom.	<p><a href="#">ABB MicroSCADA X SYS600 10.0 Installation and Administration Manual</a></p> <p>This manual provides detailed instructions for the installation and administration of ABB's MicroSCADA X SYS600 10.0 software, covering system setup, configuration, and management for grid automation products.</p>
 The image shows the cover of the RobotStudio 2020.1.2 Release Notes. It features the title 'RobotStudio 2020.1.2 Release Notes' in the center.	<p><a href="#">RobotStudio 2020.1.2 Release Notes</a></p> <p>This document provides release notes for RobotStudio version 2020.1.2, detailing new features, corrections, and known limitations.</p>