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› ELECQ H1 Wallbox 7.4 kW Single-Phase EV Charging Station User Manual

ELECQ H1-7KW-WiFi (AE102)

ELECQ H1 Wallbox 7.4 kW Single-Phase EV Charging Station User Manual

Model: H1-7KW-WiFi (AE102)

1. INTRODUCTION

Thank you for choosing the ELECQ H1 Wallbox 7.4 kW Single-Phase EV Charging Station. This manual provides essential information for the safe and efficient installation, operation, and maintenance of your charging station. The ELECQ H1 Wallbox is designed for home use, offering smart charging capabilities, universal compatibility with Type 2 electric vehicles, and robust safety features.

This charging station features a modular design for easier installation, smart energy management via a dedicated application, and advanced protection against various electrical and environmental hazards. It supports flexible charging from 1.4 kW to 7.4 kW (6-32A, 230V).



Image 1.1: ELECQ H1 Wallbox installed at a home charging an electric vehicle.

2. IMPORTANT SAFETY INFORMATION

Read all safety instructions carefully before installation and use. Failure to follow these instructions may result in electric shock, fire, or serious injury.

2.1 General Safety Precautions

- 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 charging station. Contact qualified service personnel for any repairs.
- 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 station during operation.
- Do not immerse the charging station or cable in water or other liquids.
- Avoid placing foreign objects into any part of the charging station or connector.

2.2 Advanced Safety Features

The ELECQ H1 Wallbox is equipped with comprehensive internal and external protection mechanisms:

- **Differential Protection (RCD):** 30mA AC + 6mA DC fault current detection (IEC 62955:2018) to prevent electric shock.
- **Isolation Protection:** Ensures electrical separation for enhanced safety.
- **Overvoltage Protection:** 10kV/5kA lightning protection.
- **Overload Protection:** Prevents damage from excessive current.
- **Temperature Monitoring:** Monitors all contact points to prevent cable fires.
- **IP65/IK10 Enclosure:** Provides protection against dust, water jets, and impact.
- **Operating Temperature:** Designed to function reliably from -40°C to +55°C.
- **NEMA-4 Corrosion Protection:** Ensures durability in harsh environments.
- **Self-Draining Socket:** Prevents water accumulation.



Image 2.1: Overview of ELECQ Wallbox comprehensive safety features.

3. SETUP AND INSTALLATION

The ELECQ H1 Wallbox features a modular design for simplified installation. It is crucial that installation is carried out by a certified electrician.

3.1 What's in the Box?

Before starting, verify that all components are present:

Protégez l'Environnement Avec ELECQ | On s'Engage

ELECQ vise zéro émission. Nos emballages sont 100% recyclables. Chargez votre voiture électrique sans émissions grâce à l'énergie solaire photovoltaïque.

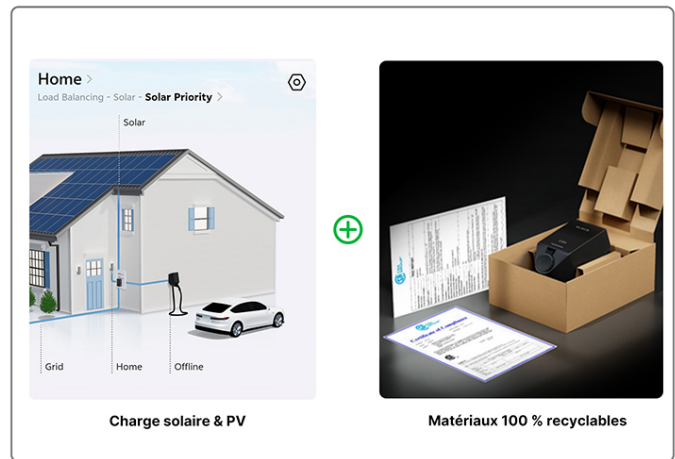


Image 3.1: Package contents of the ELECQ H1 Wallbox.

3.2 Installation Steps (Approx. 15 minutes)

1. **Step 1: Fix the backplate to the wall.** Securely mount the backplate using the provided screws and anchors.
2. **Step 2: Connect the cables.** Route the electrical wiring through the backplate and connect them to the appropriate terminals inside the wallbox.
3. **Step 3: Place the two outer casings and screw.** Attach the main unit to the backplate and secure it with the single screw.

Detailed installation guides (video and PDF) are provided with the product. Prioritize safety: always consult a certified electrician.

Wallbox ELECQ Design Modulaire | Installation Facile



*Guides d'installation fournis (vidéo + PDF)
Priorité à la sécurité : consultez d'abord un électricien certifié



Image 3.2: Simplified installation process for the ELECQ Wallbox.

3.3 Post-Installation Test

After installation, use the ELECQ app to perform a functional test and ensure all connections are correct and safe.

Test d'erreurs Wallbox ELECQ Avant Charge Sécurisée



Le design modulaire de la Wallbox ELECQ simplifie l'installation. Après l'installation, vérifiez via l'app si tout est correct. Suivez les instructions pour une utilisation sûre.

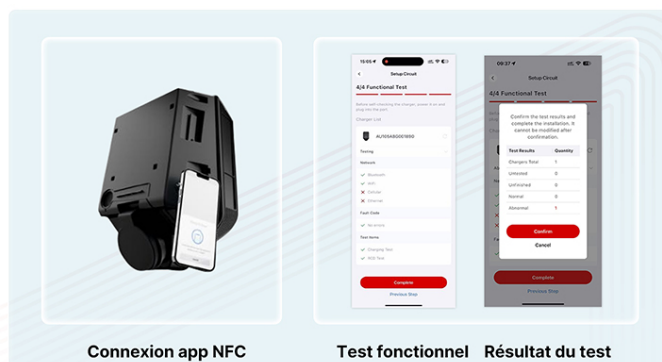


Image 3.3: ELECQ app functional test for secure charging.

4. OPERATING INSTRUCTIONS

The ELECQ H1 Wallbox offers various operating modes, from basic plug-and-charge to advanced smart app control.

4.1 Charging Modes



Image 4.1: Overview of ELECQ Wallbox charging generations.

- **Generation 1 (Manual):** Traditional EV charging without an app or manual programming. Simply plug in to start charging.
- **Generation 2 (Application):** General charging with simple app functions, including current adjustment and scheduled charging.
- **Generation 3 (Smart Application):** Future-proof charging with smart home management, solar charging integration, dynamic load balancing, multiple security features, OCPP, voice control, and future updates.

4.2 Smart Control via App

The ELECQ app provides intelligent control over your charging experience. Download the app from your smartphone's app store.

Wallbox Intelligente Avec **Smart Contrôle Via Application**

L'intelligence de la borne ELECQ est intégrée dans l'application. Grâce à son matériel performant, elle prend en charge de nouvelles fonctions et des mises à jour à long terme.

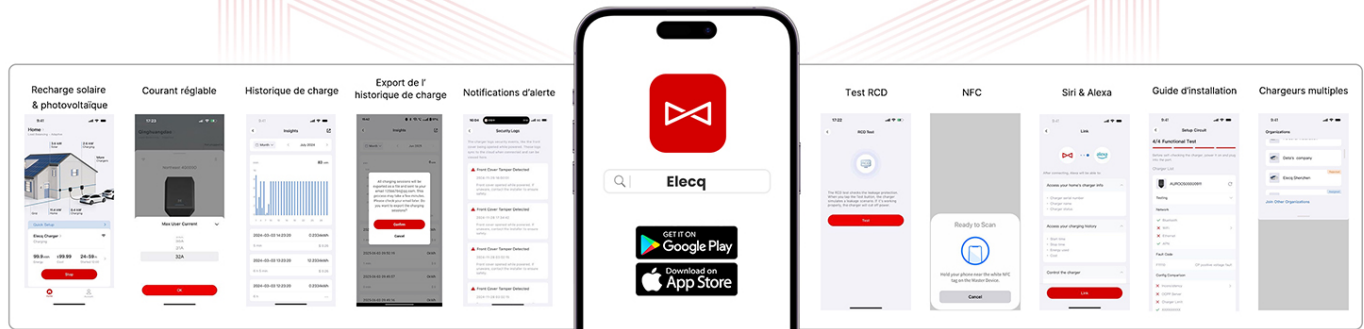


Image 4.2: ELECQ Wallbox smart control via application.

- **Dynamic Electricity Price Optimization:** Schedule charging during off-peak hours to save costs.
- **NFC/RFID Access Control:** Use provided RFID cards or NFC-enabled smartphones to authorize charging sessions.
- **Live Charging Status:** Monitor your charging progress in real-time.
- **Scheduled Charging:** Set specific times for charging to begin and end.

4.3 Smart Key Phone Function

The ELECQ smart key phone feature allows you to charge your electric car without opening the app. When your phone is near the ELECQ charging station, it automatically recognizes and authorizes access, preventing unauthorized use.

Smart **Clé Téléphone**

La clé smartphone ELECQ vous permet de recharger votre voiture électrique sans ouvrir l'application.

Lorsque vous êtes proche de la borne ELECQ, votre téléphone et la borne se reconnaissent automatiquement, empêchant ainsi tout accès non autorisé.



Image 4.3: Smart Key Phone functionality for convenient charging.

4.4 Solar Charging Integration (Requires ELECQ Power Monitor)

Optimize your charging costs with intelligent photovoltaic charging. This function requires the supplementary ELECQ Power Monitor hardware, available separately.

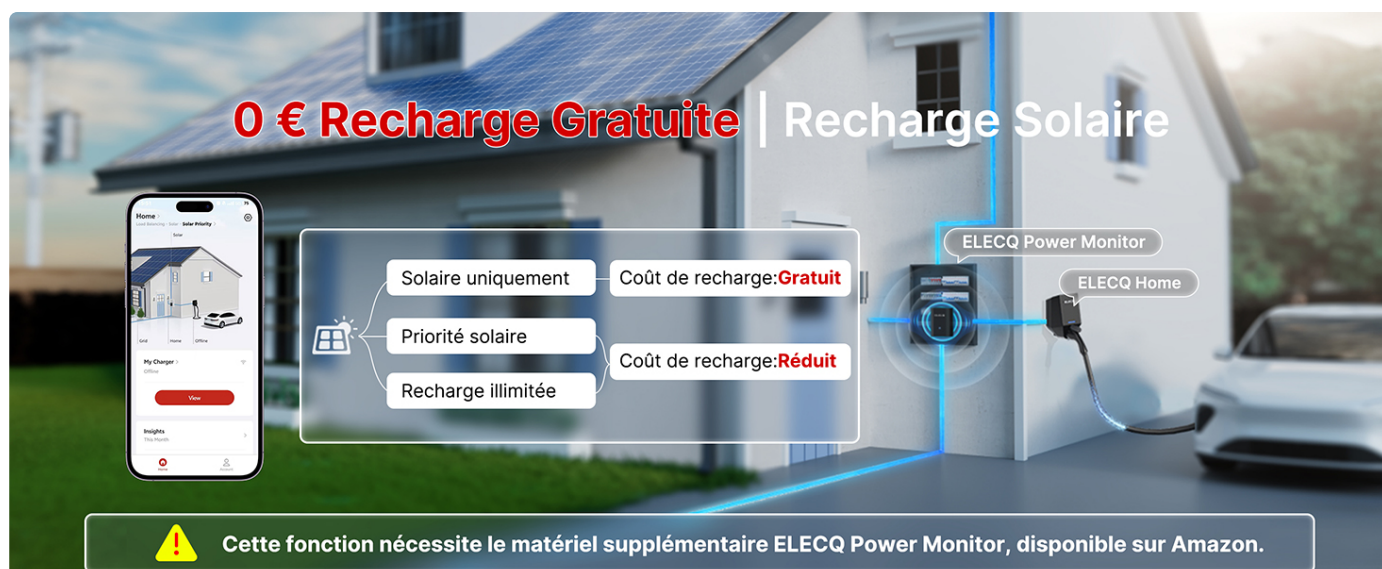


Image 4.4: Solar charging modes with ELECQ Power Monitor.

- **Solar Only:** Charge exclusively using solar energy (free).
- **Solar Priority:** Prioritize solar energy, supplementing with grid power if needed (reduced cost).
- **Unlimited Charging:** Charge at full power regardless of solar availability.

4.5 Active Load Management (ALM) (Requires ELECQ Power Monitor)

ALM dynamically adjusts power between your household appliances and EV charging to prevent overloads, short circuits, or tripped circuit breakers. This function requires the supplementary ELECQ Power Monitor hardware, available separately.



Image 4.5: Active Load Management (ALM) in action.

4.6 Dynamic Load Balancing (DLB)

DLB distributes power and overloads between multiple EV chargers, preventing outages. This is an ideal solution for businesses, hotels, or property owners with multiple charging points.

ELECQ Wallbox Équilibrage Dynamique De Charge

Équilibrage dynamique de charge : en répartissant l'alimentation et les surcharges entre plusieurs EV ELECQ, cela permet d'éviter les coupures. Solution parfaite pour entreprises, hôtels ou propriétaires.



Image 4.6: Dynamic Load Balancing for multiple charging stations.

4.7 User Management and Data Export

The ELECQ app allows you to invite up to 200 family members or team members to manage smart charging sessions. It includes an integrated meter and exportable charging history details. It also supports third-party access cards or RFID cards for authorization.

ELECQ Wallbox Recharge Programmée Intelligente

La Wallbox ELECQ prend en charge la recharge programmée intelligente, vous permettant d'économiser davantage. Elle permet également l'exportation des historiques de recharge.

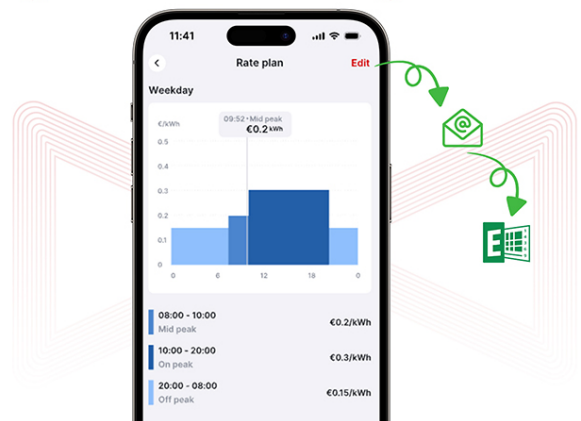
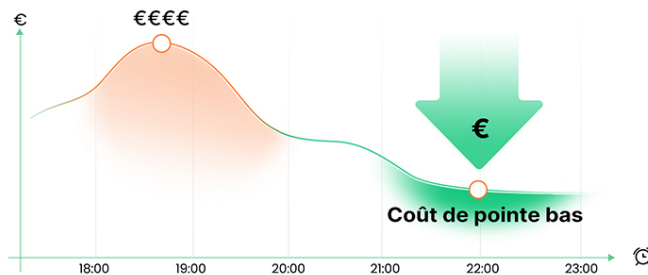


Image 4.7: Family and team charging management with data export.

5. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your ELECQ H1 Wallbox.

- **Cleaning:** Periodically wipe the exterior of the charging station with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Cable Inspection:** Regularly inspect the charging cable and connector for any signs of wear, cuts, or damage. If any damage is found, discontinue use immediately and contact support.
- **Firmware Updates:** Keep the ELECQ app and wallbox firmware updated to ensure optimal performance and access to new features. Updates are typically managed through the app.
- **Environmental Conditions:** While designed for extreme conditions (-40°C to +55°C), ensure the installation area remains

clear of debris and excessive moisture.

6. TROUBLESHOOTING

If you encounter issues with your ELECQ H1 Wallbox, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Charging does not start.	• Charging cable not properly connected. • Vehicle not ready to charge. • No power to the wallbox. • Access control (RFID/App) not authorized.	• Ensure the charging cable is securely plugged into both the wallbox and the vehicle. • Check vehicle's charging settings. • Verify power supply to the wallbox and circuit breaker. • Authorize charging via RFID card or ELECQ app.
Charging stops unexpectedly (e.g., flashing red light, error F01102).	• Ground fault anomaly (F01102). • Overload or short circuit detected. • Internal temperature too high.	• For F01102 (Ground Fault): This indicates a potential issue with the electrical grounding. Immediately disconnect the charger and consult a qualified electrician to inspect your electrical installation. Do not attempt to use the charger until the issue is resolved. • Check for tripped circuit breakers. Reduce household load if Active Load Management is not enabled or Power Monitor is not installed. • Ensure proper ventilation around the wallbox.
App connectivity issues (WiFi/Bluetooth).	• Weak signal. • Incorrect network settings. • App not updated.	• Ensure the wallbox is within range of your WiFi router or smartphone. • Verify WiFi password and network configuration in the app. • Update the ELECQ app to the latest version.

If the problem persists after attempting these solutions, please contact ELECQ customer support.

7. SPECIFICATIONS

Feature	Specification
Brand	ELECQ
Model	Elecq Home H1--7kw WiFi Version (AE102)
Charging Power	1.4 KW - 7.4 kW (Adjustable)
Input/Output Current	32 A
Voltage	230 V
Phase	Single-phase
Connector Type	Type 2 (IEC 62196-2)
Connectivity	App, WiFi (2.4G&5G Hz), RFID, Bluetooth, OCPP 2.0.1
Safety Certifications	CE, TÜV, RoHS, REACH, RED, CB
Protection Rating	IP65 (Dust & Water), IK10 (Impact)
Operating Temperature	-40°C to +55°C
Lightning Protection	10kV/5kA
DC Fault Current Detection	6mA (IEC 62955:2018)
Item Weight	3.35 Kilograms
Package Dimensions	32.6 x 26.6 x 17.2 cm

The ELECQ H1 Wallbox is compatible with all Type 2 electric and plug-in hybrid vehicles. Always verify IEC 62196-2 compliance with your vehicle dealer.

Que Contient La Boîte ?



Image 7.1: Compatibility with Type 2 electric vehicles.

8. WARRANTY AND SUPPORT

ELECQ is committed to providing high-quality products and excellent customer service.

8.1 Manufacturer's Warranty

The ELECQ H1 Wallbox comes with a **3-year manufacturer's warranty**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

8.2 Customer Support

Our global support team is available to assist you with any questions or issues. We offer:

- 30-day free returns.
- 2-year quality and service guarantee.
- Lifetime technical support from the ELECQ team.

Compatible Avec Tous Les Véhicules Électriques Et hybrides Rechargeables De Type 2 (IEC 62196-2)



*Vérifiez la conformité IEC 62196-2 de votre véhicule auprès de votre concessionnaire

Image 8.1: ELECQ customer support team ready to assist.

For support, please visit the ELECQ brand store on Amazon or refer to the contact information provided in your product packaging.

9. ENVIRONMENTAL COMMITMENT

ELECQ is committed to environmental sustainability. Our products aim for zero emissions, and our packaging is 100% recyclable. Charge your electric vehicle with zero emissions thanks to solar photovoltaic energy integration.

ELECQ Wallbox **Protection Antivol** Sécurité Intelligente Partout

La conception de sécurité de l'ELECQ Wallbox repose sur l'intelligence du matériel et du logiciel.

Son système antivol est parmi les plus avancés du secteur. ELECQ fait toujours de son mieux pour protéger votre sécurité.



Image 9.1: ELECQ's commitment to solar charging and recyclable materials.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question