

QianBaiwan0920

# Wall Mounting EV Charger Lock Box User Manual

Model: QianBaiwan0920

## 1. INTRODUCTION

This user manual provides comprehensive instructions for the installation, operation, and maintenance of the Wall Mounting EV Charger Lock Box. Please read this manual thoroughly before using the product to ensure proper function and safety.

## 2. PRODUCT OVERVIEW

The Wall Mounting EV Charger Lock Box is designed to provide robust protection for your EV charging station. It features a durable construction, secure locking mechanism, and efficient heat dissipation, making it ideal for outdoor use.



Figure 2.1: Front view of the EV Charger Lock Box.

### 3. KEY FEATURES

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- **Mechanical and Password Lock:** Ensures secure storage without reliance on external power. The combination can be reset with a key.
- **IP65 Waterproof and Scratch-Proof Plate:** Features sandblasting technology and an internal water guide groove to prevent rain and snow intrusion.
- **Waterproof and Dustproof Design:** IP65 rating provides protection against rain and snow, suitable for outdoor environments. Includes hidden rainwater drainage and tempered glass.
- **Double-Sided Ventilation:** Vents on both sides and bottom promote air circulation for effective heat dissipation, extending charger lifespan.
- **Extended Depth and Durable Construction:** Accommodates larger chargers. Made from cold-rolled steel plate for high strength, toughness, and corrosion resistance.

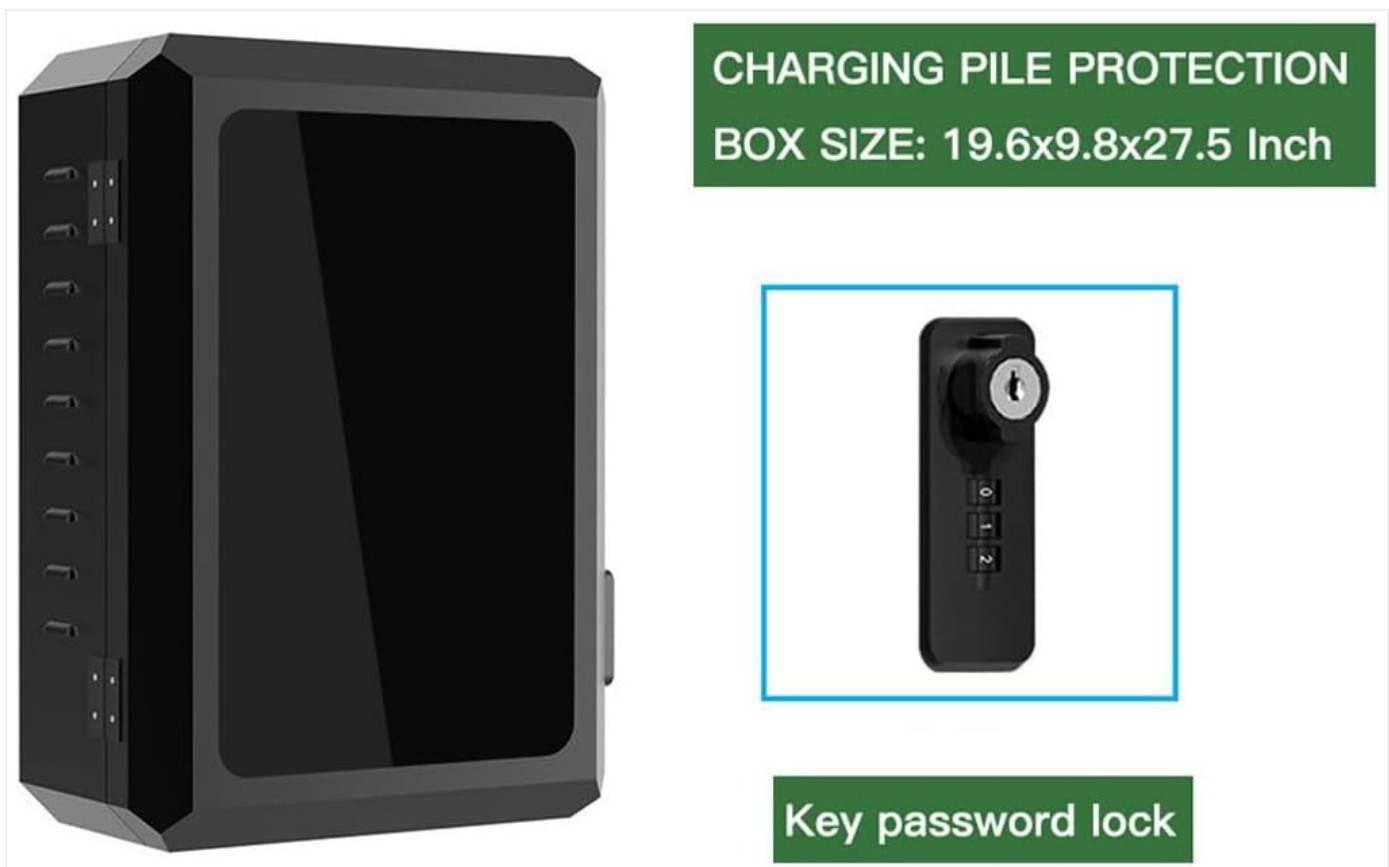


Figure 3.1: Illustration of the mechanical and password lock mechanism.

## 4. PACKAGE CONTENTS

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Upon opening the package, please verify that all components are present and undamaged.

- EV Charger Lock Box Body
- Installation Hardware (screws, anchors)
- Keys for Lock Mechanism
- User Manual (this document)

## 5. SETUP AND INSTALLATION

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Follow these steps for proper installation of the EV Charger Lock Box.

### 5.1. Tools Required

- Drill
- Drill bits appropriate for mounting surface
- Measuring tape
- Level
- Pencil or marker
- Screwdriver

### 5.2. Installation Steps

1. **Choose Location:** Select a suitable wall or sturdy surface for mounting. Ensure it is close to your EV charger's power source and allows for easy access.
2. **Mark Drilling Points:** Hold the lock box against the desired mounting surface. Use a level to ensure it is straight.

Mark the positions for the mounting holes with a pencil.

3. **Drill Holes:** Drill pilot holes at the marked points. Use a drill bit appropriate for the wall material and the provided anchors.
4. **Insert Anchors:** If necessary, insert wall anchors into the drilled holes.
5. **Mount the Box:** Align the lock box with the drilled holes and secure it to the wall using the provided screws. Ensure it is firmly attached.
6. **Install EV Charger:** Place your EV charger inside the lock box. Utilize the pre-drilled holes for wires and the internal layout for cable management.
7. **Secure Cables:** Route charging cables through the designated openings. Ensure cables are not pinched or stressed.
8. **Close and Lock:** Close the box door and engage the mechanical/password lock.



Figure 5.1: Example of an EV charger installed within the protective box.

# Reasonable Layout

## Pre-drilled Holes For Wires

Large Capacity Design

Can Hold All Kinds Of Charging Pile Accessories



Figure 5.2: Internal layout showing pre-drilled holes for wires and space for accessories. (1) Circuit breaker area, (2) Charger mounting



area, (3) Cable storage, (4) Cable routing, (5) Tempered glass door.

## 6. OPERATION

### 6.1. Using the Mechanical and Password Lock

The lock box is equipped with a mechanical password lock for security. To open the box, enter the correct combination. To lock, ensure the door is fully closed and scramble the combination dials.

**Setting/Resetting the Combination:** Refer to the specific instructions provided with the lock mechanism. Typically, a key is used to reset the combination. Insert the key, turn it to the reset position, set your new combination, and then return the key to its original position and remove it.

### 6.2. Heat Dissipation

The lock box features double-sided ventilation holes to facilitate air circulation and heat dissipation. Ensure these vents are not obstructed to maintain optimal operating temperature for your EV charger.



Figure 6.1: Side view highlighting the heat dissipation vents.

## 7. MAINTENANCE

Regular maintenance will ensure the longevity and optimal performance of your EV Charger Lock Box.

- **Cleaning:** Periodically wipe the exterior with a soft, damp cloth to remove dust and dirt. Avoid abrasive cleaners that could damage the finish or tempered glass.
- **Ventilation Check:** Ensure that the ventilation holes on the sides and bottom are clear of debris (leaves, dust, insects) to allow for proper airflow and heat dissipation.
- **Lock Mechanism:** Lubricate the lock mechanism annually with a graphite-based lubricant to ensure smooth operation.
- **Structural Integrity:** Periodically inspect the mounting screws and the box structure for any signs of loosening, corrosion, or damage. Tighten screws as needed.
- **Water Drainage:** Verify that the hidden rainwater drainage channels are not blocked.

## 8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Box door difficult to open/close	Misalignment; debris in hinges; lock mechanism stiff.	Check alignment; clean hinges; lubricate lock.
Condensation inside the box	Blocked ventilation holes; extreme temperature fluctuations.	Clear ventilation holes; ensure proper airflow.
Lock combination not working	Incorrect combination entered; lock mechanism jammed.	Ensure correct combination; use key to reset if applicable; lubricate lock.
Water ingress	Damaged seals; blocked drainage; improper installation.	Inspect seals for damage; clear drainage channels; re-evaluate installation.

## 9. SPECIFICATIONS

Attribute	Detail
Model	QianBaiwan0920
Dimensions (L x W x H)	19.6 x 9.8 x 27.5 inches (500 x 250 x 700 mm)
Material	Cold-rolled steel plate, Tempered glass
Protection Rating	IP65 (Waterproof and Dustproof)
Lock Type	Mechanical and Password Lock
Ventilation	Double-sided heat dissipation holes
Compatibility	Suitable for most EV charger stations (extended depth)





**Size: L x W x H --27.5x19.6x9.8 inches**  
**Applicable to 99% of Charging Station Brands**

Figure 9.1: Product dimensions: 19.6 inches (width) x 9.8 inches (depth) x 27.5 inches (height).

## 10. WARRANTY AND SUPPORT

For warranty information and technical support, please contact the manufacturer or seller directly. Keep your purchase receipt as proof of purchase.

**Manufacturer:** QianBaiwan

**Date First Available:** September 20, 2024

For further assistance, please refer to the contact information provided at the point of purchase or on the product packaging.

