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> XINYIELE XYJB-10157 IP67 Waterproof ABS Plastic Junction Box Instruction Manual

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Instruction Manual

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1. INTRODUCTION

This manual provides essential instructions for the safe and effective use of your XINYIELE XYJB-10157 IP67 Waterproof ABS Plastic Junction Box. This enclosure is designed to protect electrical junctions in both indoor and outdoor environments, offering robust protection against water, dust, and weather elements. Please read this manual thoroughly before installation and operation to ensure proper functionality and longevity of the product.

Super waterproof

Let you no longer worry about electricity safety



ABS Plastic



IP67 waterproof



Dustproof and
Weatherproof



304 stainless
steel latches



Durable

Image 1.1: The XINYIELE junction box demonstrating its IP67 waterproof rating with water splashing over it.

2. SAFETY INFORMATION

Always adhere to local electrical codes and safety regulations when installing or working with electrical enclosures. Failure to do so may result in electric shock, fire, or serious injury.

- Ensure power is disconnected before performing any installation, maintenance, or modification inside the junction box.
- Only qualified personnel should perform electrical work.
- Verify that all connections are secure and properly insulated.
- Do not modify the enclosure in a way that compromises its IP67 rating.
- Keep the enclosure lid securely latched to maintain its protective properties.

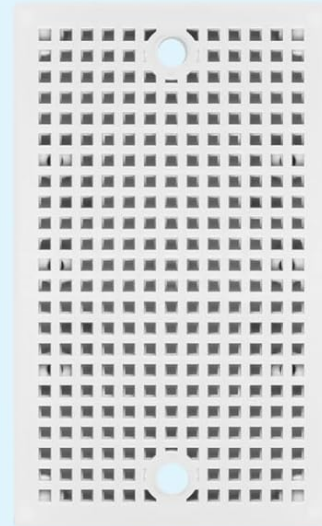
3. PACKAGE CONTENTS

Carefully unpack the box and ensure all items listed below are present and undamaged. If any items are missing or damaged, please contact customer support.

What You Get From



Waterproof Junction Box *1



Mounting Plate *1



Wall Bracket Screws *4



Mounting Plate Screws *2



Stainless Steel Wall Brackets *4



NPT 1/2" *2



NPT 3/8" *2

Image 3.1: Visual representation of all components included in the package.

- Waterproof Junction Box (1 unit)
- Mounting Plate (1 unit)
- Wall Bracket Screws (4 units)
- Mounting Plate Screws (2 units)
- Stainless Steel Wall Brackets (4 units)
- NPT 1/2" Cable Glands (2 units)
- NPT 3/8" Cable Glands (2 units)

4. PRODUCT FEATURES

The XINYIELE ABS Plastic Junction Box is engineered with several features to ensure reliable protection for your electrical components.

- **IP67 Rating:** Provides complete protection against dust ingress and can withstand immersion in water up to 1 meter for 30 minutes.
- **Durable ABS Plastic Construction:** Offers excellent impact resistance and durability for long-term outdoor use.
- **Hinged Cover:** Allows for easy access to internal components for installation and maintenance.
- **304 Stainless Steel Latches:** Ensures a secure and corrosion-resistant seal for the hinged cover.
- **Built-in Water Seal:** An integrated gasket provides a tight seal against moisture and dust.
- **Removable Mounting Plate:** Facilitates easy installation of electrical components inside the enclosure.
- **Wall Brackets:** Included for secure and versatile mounting on various surfaces.
- **Customizable Design:** The ABS material can be easily drilled or modified for specific project requirements.



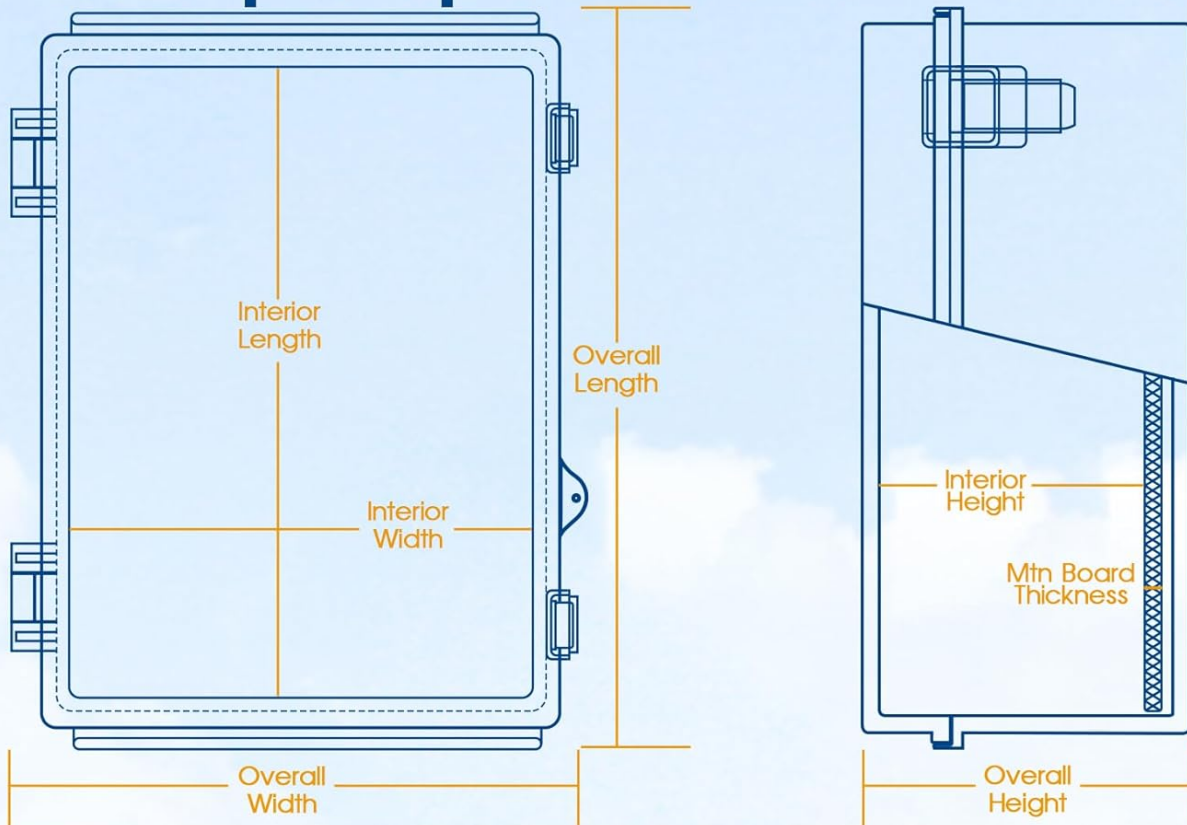
Image 4.1: Key features of the junction box, highlighting the internal water seal, latches, and mounting plate.

5. SPECIFICATIONS

The following table outlines the technical specifications for the XINYIELE XYJB-10157 junction box (5.9"x3.9"x2.8" Grey Cover variant):

Attribute	Value
Model Number	XYJB-10157
Material	Acrylonitrile Butadiene Styrene (ABS), Stainless Steel
Color	Grey Cover
External Dimensions (D x W x H)	2.8" x 3.9" x 5.9" (71mm x 99mm x 150mm)
IP Rating	IP67
Weight	0.34 Kilograms
Installation Type	Nail-On (using wall brackets)
Included Components	Junction Box, Mounting Plate, Wall Brackets, Screws, Cable Glands

Multiple specifications sizes



Size unit of length(IN)	Overall Length	Overall Width	Overall Height	Interior Length	Interior Width	Interior Width	Min Board Length	Min Board Width	Min Board Width
5.9"x3.9"x2.8"	6-1/4"	4-5/8"	2-7/8"	5-1/8"	3-1/8"	2-1/2"	4-7/8"	2-7/8"	1/8"
8.7"x6.7"x4.3"	8-13/16"	7-5/16"	4-9/16"	7-3/4"	5-13/16"	3-1/2"	7-1/2"	5-1/2"	1/8"
11"x7.5"x5.5"	11-5/16"	8-5-16"	5-9-16"	10-1/8"	6-9/16"	4-11/16"	9-5/8"	5-13/16"	5/32"
11.8"x11.8"x7.1"	12-5/8"	12-1/8"	7-1/4"	10-7/8"	10-7/8"	6-7/8"	10-3/8"	10-3/8"	1/8"
13.8"x9.8"x5.9"	14-3/16"	10-9/16"	6-1/8"	12-5/8"	8-15/16"	5-5/8"	12-1/4"	8-1/4"	5/32"
17.7"x13.8"x7.9"	18-1/8"	14-7/8"	8-1/8"	16-7/8"	12-7/8"	7-1/2"	15-7/8"	11-3/4"	1/8"
19.7"x15.7"x7.9"	20-1/8"	16-7/8"	8-1/8"	18-7/8"	14-7/8"	7-1/2"	18-1/4"	14-3/8"	1/8"

Image 5.1: Detailed dimensional specifications for various XINYIELE junction box models.

6. SETUP & INSTALLATION

Follow these steps for proper installation of your junction box:

- Plan Mounting Location:** Choose a suitable, stable surface for mounting. Ensure the location allows for easy access and cable routing.
- Attach Wall Brackets:** Secure the four stainless steel wall brackets to the back of the junction box using the provided wall bracket screws. Ensure they are firmly attached.
- Mark Drilling Points:** Hold the assembled junction box with brackets against the desired mounting surface. Use a pencil or marker to mark the drilling points for the wall bracket mounting holes.
- Drill Pilot Holes:** Drill appropriate pilot holes at the marked locations. Use suitable drill bits for your mounting surface (e.g., wood, concrete, metal).
- Mount the Box:** Align the wall brackets with the drilled holes and secure the junction box to the surface using

appropriate fasteners (not included, choose based on wall material).

6. **Install Mounting Plate:** If using, attach the internal mounting plate to the designated standoffs inside the box using the provided mounting plate screws.
7. **Install Cable Glands:** Drill holes in the desired locations on the enclosure walls for cable entry/exit. Insert the NPT cable glands and secure them tightly to maintain the IP67 seal.
8. **Wire Components:** Route your electrical cables through the glands and connect your components to the mounting plate. Ensure all wiring is done according to electrical standards and local codes.
9. **Close and Latch:** Once wiring is complete, ensure the internal water seal is clean and properly seated. Close the hinged cover and secure it firmly with the stainless steel latches.



Suitable For More Scenarios



Image 6.1: Examples of the junction box in use, demonstrating its versatility for different electrical projects.

7. OPERATION

The XINYIELE junction box is designed for straightforward operation to protect your electrical connections.

- **Opening the Cover:** To open, unlatch the stainless steel clasps on the sides of the enclosure. The hinged cover will then open, providing access to the interior.
- **Closing the Cover:** To close, gently lower the cover, ensuring the built-in water seal aligns correctly with the enclosure body. Press down firmly and secure both stainless steel latches until they click into place. This ensures the IP67 seal is maintained.
- **Lockable Tab:** The cover features a lockable tab (refer to Image 4.1) for added security. A small padlock (not included) can be used to prevent unauthorized access.

8. MAINTENANCE

Regular maintenance helps ensure the continued performance and protective qualities of your junction box.

- **Periodic Inspection:** Annually, or more frequently in harsh environments, inspect the enclosure for any signs of damage, cracks, or wear.
- **Seal Check:** Examine the built-in water seal for any degradation, tears, or debris that could compromise its integrity. Clean the seal if necessary.
- **Latch Functionality:** Verify that the stainless steel latches operate smoothly and securely, providing a tight closure.
- **Cable Gland Tightness:** Ensure all cable glands are securely tightened to prevent water or dust ingress.
- **Cleaning:** Clean the exterior of the enclosure with a damp cloth and mild detergent. Avoid abrasive cleaners or solvents that could damage the ABS plastic.

9. TROUBLESHOOTING

If you encounter issues with your junction box, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Water or Dust Inside Enclosure	Loose latches, damaged seal, improperly installed cable glands, cracks in enclosure.	Ensure latches are fully secured. Inspect and clean the water seal. Tighten cable glands. Check for physical damage to the enclosure.
Cover Does Not Close Securely	Obstruction, misaligned seal, damaged hinges or latches.	Remove any obstructions. Realign the water seal. Inspect hinges and latches for damage and replace if necessary.
Mounting Feels Unstable	Loose mounting screws, inappropriate fasteners for surface, damaged wall brackets.	Tighten all mounting screws. Use fasteners appropriate for the wall material. Inspect wall brackets for damage.

10. SUPPORT

For technical support, warranty information, or any questions regarding your XINYIELE Waterproof ABS Plastic Junction Box, please contact XINYIELE customer service through the retailer where the product was purchased or refer to the official XINYIELE website for contact details.



