

Mollom HA-24

Mollom HA-24 24-Way IP66 Power Distribution Box

Model: HA-24

1. INTRODUCTION

This instruction manual provides essential information for the safe and efficient installation, operation, and maintenance of your Mollom HA-24 24-Way IP66 Power Distribution Box. Please read this manual thoroughly before installation and keep it for future reference. This product is designed to house miniature circuit breakers (MCBs) and provide reliable power distribution in various environments, including outdoor applications, thanks to its robust and waterproof design.

2. SAFETY INFORMATION

- **Electrical Hazard:** Installation and wiring must be performed by a qualified electrician in accordance with all local and national electrical codes and regulations.
- **Power Disconnection:** Always ensure that the main power supply is disconnected before performing any installation, wiring, or maintenance inside the distribution box.
- **Proper Grounding:** Ensure the enclosure and all internal components are properly grounded to prevent electrical shock.
- **Environmental Conditions:** While the enclosure is IP66 rated, avoid installing it in locations subject to extreme temperatures, direct flame, or corrosive substances.
- **Secure Connections:** Verify all electrical connections are tight and secure to prevent overheating and potential fire hazards.
- **Component Compatibility:** Use only miniature circuit breakers and other electrical components that are compatible with the DIN rail and busbar system.

3. PRODUCT OVERVIEW

The Mollom HA-24 is a high-quality, 24-way power distribution box designed for durability and safety. It features an IP66 waterproof rating, making it suitable for both indoor and outdoor installations.

Key Features:

- **Premium Construction:** Made from high-quality 2.8 mm thick ABS plastic, offering excellent impact resistance and

electrical insulation.

- **IP66 Water Resistance:** Effectively repels water, rain, snow, dust, and oil, ensuring protection for electrical components in harsh outdoor conditions.
- **Transparent PC Cover:** The cover is made of high-quality PC material, clear for easy inspection, and resistant to yellowing over time.
- **Double Clip Design:** The transparent cover is secured with double clip fasteners for a tight seal.
- **Padlock Hole:** Features a pre-drilled hole for an optional padlock, enhancing security.
- **Pure Copper Nuts:** All screw holes are equipped with integrated pure copper nuts for superior durability and repeated use.
- **Integrated Busbars and DIN Rail:** Includes busbars for neutral and ground connections, and a DIN rail for easy installation of miniature circuit breakers.

Included Components:

- 1x HA-24 Power Distribution Box
- Mounting Screws and Wall Anchors
- Cable Glands
- Neutral and Ground Busbars
- DIN Rail

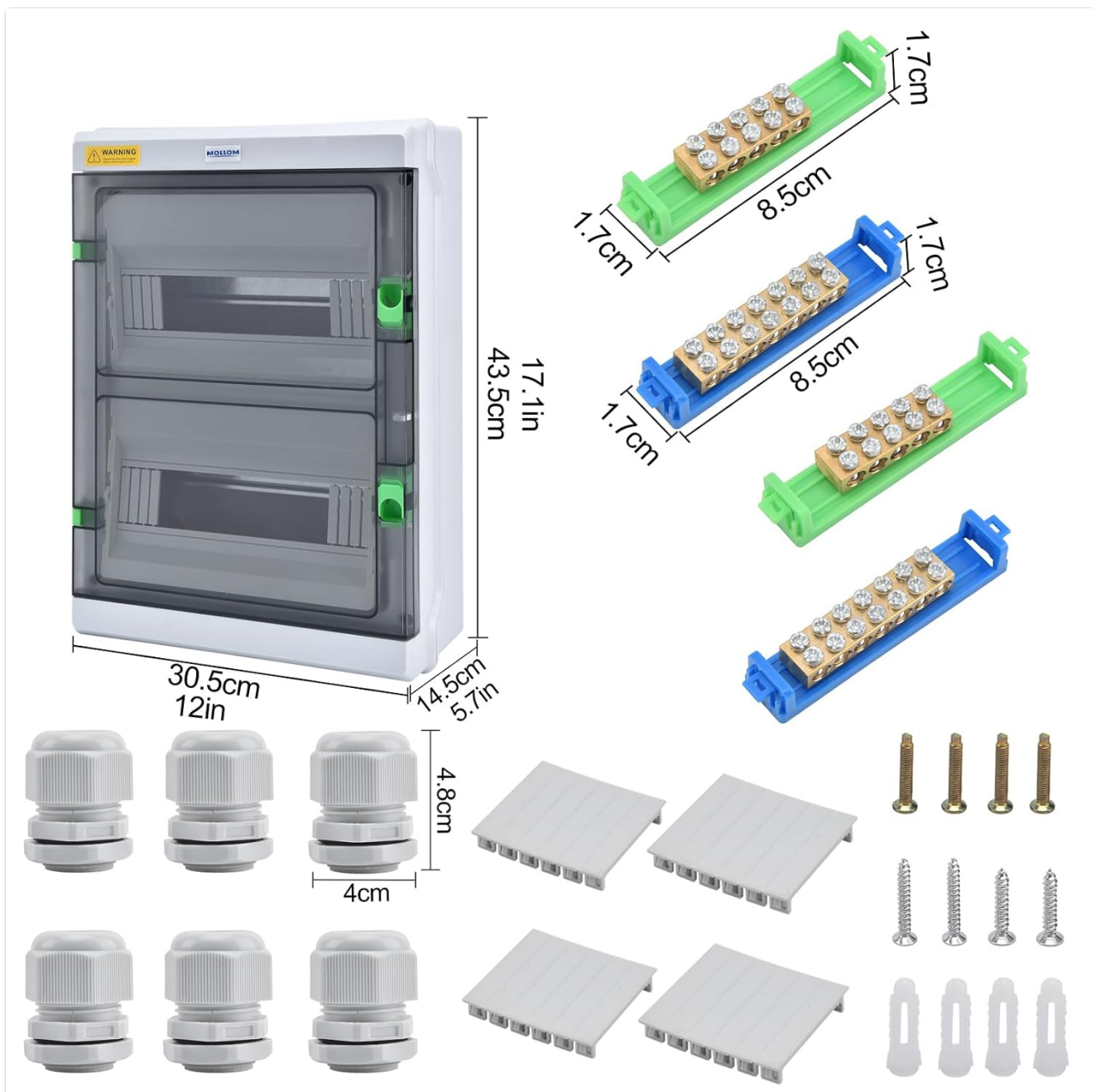
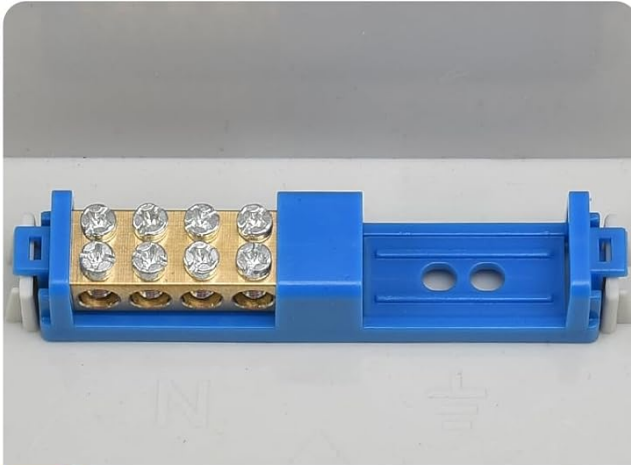


Figure 3.1: Overview of the Mollom HA-24 Power Distribution Box, showing its external dimensions and the various components included for installation, such as busbars, cable glands, and mounting hardware.

PRODUCT DETAILS



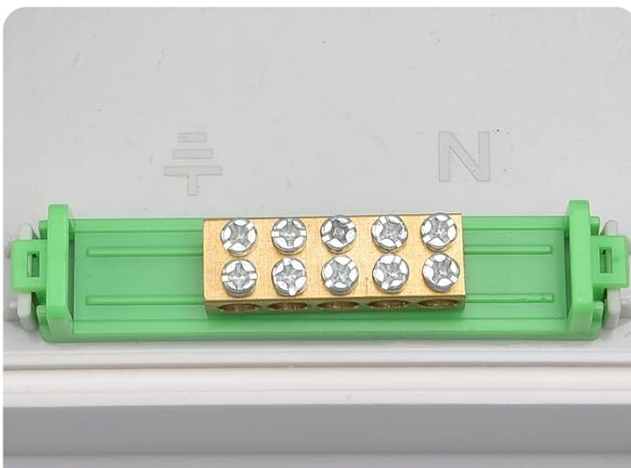
01

Blue busbar



02

Brass nut hole



03

Green busbar



04

Waterproof sealing strip

Figure 3.2: Detailed view of the internal features, highlighting the blue and green busbars for neutral and ground connections, the durable brass nuts in the screw holes, and the waterproof sealing strip along the enclosure's edge.

Waterproof Distribution Box IP66

Blocks splashing water, rain, dust, snow, oil



Figure 3.3: Visual representation of the IP66 waterproof rating, showing the enclosure effectively repelling splashing water, indicating its suitability for outdoor and harsh environments.

4. SETUP AND INSTALLATION

Proper installation is crucial for the safety and performance of the distribution box. Always ensure power is disconnected before starting.

4.1 Mounting the Enclosure

1. Select a suitable mounting location that is flat, stable, and accessible, considering environmental factors for outdoor installations.
2. Use the provided mounting screws and wall anchors. Mark the drilling points on the wall using the enclosure as a template.
3. Drill holes, insert wall anchors, and securely fasten the distribution box to the wall.

4.2 Installing MCBs and Wiring

1. Open the transparent cover by releasing the double clips.
2. Install miniature circuit breakers (MCBs) onto the integrated DIN rail. Ensure they are securely clipped into place.
3. Route incoming and outgoing cables through the appropriate cable glands. Tighten the glands to ensure an IP66 seal.
4. Connect the live wires to the MCBs. Connect neutral wires to the blue busbar and ground wires to the green busbar. Ensure all connections are tight.
5. Verify all wiring is correct and secure according to electrical diagrams and local regulations.

4.3 Securing the Enclosure

1. Once all wiring is complete and checked, close the transparent cover, ensuring the double clips engage fully to maintain the IP66 seal.
2. For added security, an optional padlock can be installed through the pre-drilled hole on the cover.

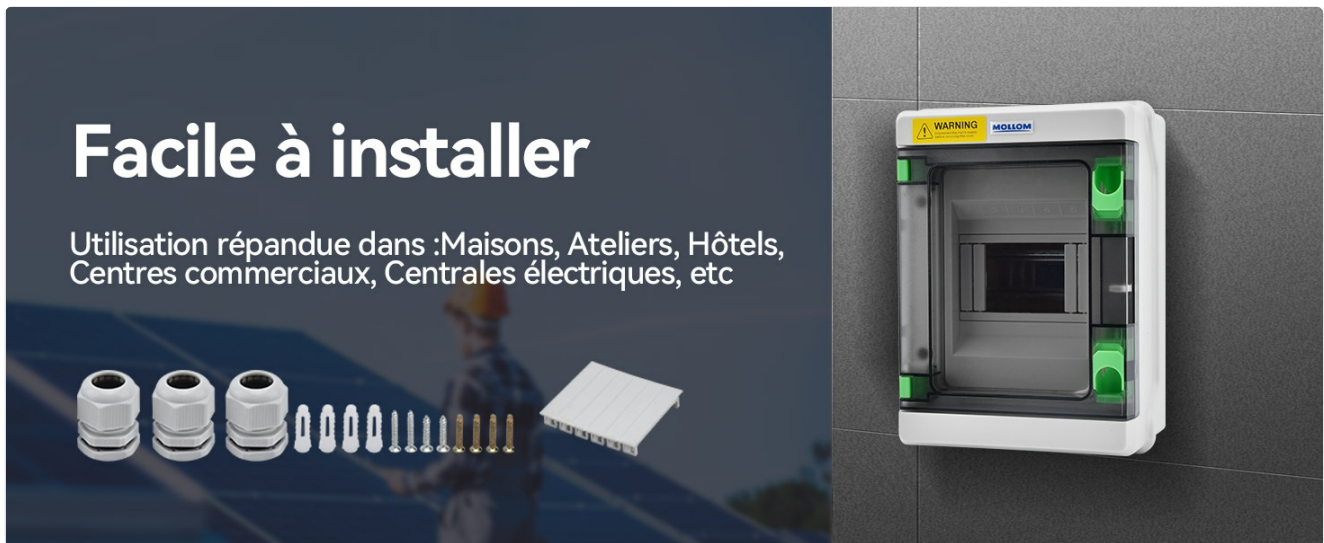


Figure 4.1: Essential installation components provided with the distribution box, such as cable glands for secure cable entry and mounting hardware for wall attachment.



Figure 4.2: Close-up view of the transparent cover's double clip mechanism and the pre-drilled hole, illustrating how a padlock can be used to secure the enclosure and prevent unauthorized access.

5. OPERATING INSTRUCTIONS

Once properly installed and wired by a qualified professional, the Mollom HA-24 Power Distribution Box operates passively as a protective enclosure for your electrical components. Its primary function is to safely house and distribute power through the installed MCBs.

- **Power On/Off:** The individual MCBs inside the box control the power to specific circuits. Operate these circuit breakers as needed.
- **Maintain Closure:** Always ensure the transparent cover is securely closed using the double clips to maintain the IP66 rating and protect internal components from environmental elements and unauthorized access.
- **Visual Inspection:** Periodically check the transparent cover for any signs of damage or compromise to the seal.

6. MAINTENANCE

Regular maintenance ensures the longevity and continued safe operation of your distribution box.

- **Periodic Inspection:** At least once a year, or more frequently in harsh environments, visually inspect the enclosure for any cracks, damage, or signs of wear. Check the integrity of the cable glands and the cover seal.
- **Cleaning:** Clean the exterior of the box with a soft, damp cloth. Do not use abrasive cleaners or solvents that could damage the ABS plastic or PC cover. Ensure the cover remains clear for visibility of internal components.
- **Internal Check (by qualified personnel):** If an internal inspection is required, ensure power is disconnected. Check for loose connections, corrosion, or signs of overheating on wires and terminals.

7. TROUBLESHOOTING

This section addresses common issues you might encounter. For complex electrical problems, always consult a qualified electrician.

- **Water or Dust Inside Enclosure:**
 - Check if the transparent cover is fully closed and the double clips are engaged.
 - Inspect the rubber gasket around the cover for damage or misalignment.
 - Ensure all cable glands are properly tightened and sealed around the cables.
- **MCB Tripping Frequently:**
 - This indicates an electrical fault (overload or short circuit) in the connected circuit. Consult a qualified electrician to diagnose and resolve the underlying issue.
- **Loose Connections:**
 - If you suspect loose wiring, immediately disconnect power and have a qualified electrician inspect and tighten all terminal connections.

8. SPECIFICATIONS

Feature	Specification
Model	HA-24 (EBHKHA-24)
Number of Circuits	24
Dimensions (L x W x H)	30.5 x 14.5 x 43.5 cm (11.9 x 5.7 x 17.2 inches)
Weight	2.7 kg (2700 Grams)
Material	Acrylonitrile Butadiene Styrene (ABS)
Cover Material	Polycarbonate (PC)
Protection Rating	IP66
Mounting Type	Wall Mount
Included Components	1x Protection Box, Mounting Screws, Wall Anchors, Cable Glands, Busbars
Country of Origin	China

9. WARRANTY AND SUPPORT

Mollom products are manufactured to high-quality standards. For any questions regarding installation, operation, or potential defects, please contact Mollom customer support through the retailer where the product was purchased or visit the official Mollom website for assistance.