

M-Backup

MU100-S & MU100-T User Manual



ATMOCE

About This Document

Corporate Contact Information

Company: ATMOCCE Holding B.V.

Address: Rokin 92-96, 1012 KZ Amsterdam, the Netherlands

Email: info@atmoce.com

Telephone: +31 20 241 6207

Disclaimer

- Product information is subject to change without prior notice. Every effort has been made in the preparation of this document to ensure accuracy of the content, but all statements, information, and recommendations in this document do not constitute a warranty of any kind, express or implied.
- For optimum reliability and to meet warranty requirements, this product must be installed in accordance with the instructions in this manual.

Applicable Scope

- This manual is intended for professional installation and maintenance personnel only.
- This manual mainly introduces the assembly, installation, configuration, maintenance, and troubleshooting methods of the following types of backup box:

MU100-S / MU100-T

Revision History

	Date	Version	Description
1	2026-01-15	Rev. 1.0.0	1. First release.

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Safety Information

1.1 Statement

- Before installing or using the Atmoce M-Backup, please carefully read the user manual, all instructions and safety labels on the product, and any safety manuals available. Not following these safety instructions may result in personal injury, damage to the equipment, or invalidation of the warranty.
- DANGER, WARNING, CAUTION, and NOTE in this manual imply that they must be observed. You must also comply with relevant international, national or regional standards and industry practices. Atmoce assumes no responsibility for any violation of safe operation requirements or of safety standards for the design, manufacture and use of the equipment.
- This equipment should be used in an environment that meets the design specifications; otherwise, the equipment failure, abnormal equipment function or damage to components that arises shall not be covered by the warranty.
- All operations such as transport, storage, installation, operation, use, maintenance, etc. should comply with applicable laws, regulations, standards and specifications.

1.2 Safety Labels

To reduce the risk of electric shock and to ensure the safe installation and operation of the backup box system, the following safety symbols are used throughout this manual to indicate hazardous conditions and important safety instructions.

 Danger	A label indicates a hazard with a high level of risk. If not avoided, it may result in serious personal injury or death.
 Warning	A label indicates a hazard with a medium level of risk. If not avoided, it may result in serious personal injury or death.
 Caution	A label indicates a hazard with a low level of risk. If not avoided, it may result in serious personal injury or death.
 Note	A label indicates a safety hazard and risk of device damage. If not avoided, it may result in equipment damage, data loss, reduced performance, and other consequences, but does not involve personal injury.

1.3 Personal Safety Instructions



Danger

- The installation process is strictly prohibited to operate with electricity. It is prohibited to install or remove cables with electricity. The moment the cable core touches the conductor, it will generate electric arc or electric spark, which can lead to fire or personal injury.
- When equipment is energised, unregulated and incorrect operation may produce a fire, electric shock or explosion, resulting in injury, death or property damage.
- Do not work alone. When using or working near electrical equipment, someone should be within earshot or close enough to help you. Remove rings, bracelets, necklaces, watches, etc. when operating PV modules, microinverters, M-Combiners, M-Backups and other electrical equipment.



Warning

- Specialised protective equipment must be used during operations, such as protective clothing, insulated shoes, goggles, helmets and insulated gloves.
- Do not ignore warnings, cautions and precautions in manuals and on equipment.
- During operation of the equipment, if a malfunction is detected that could result in personal injury or equipment damage, immediately terminate the operation, report it to the person in charge, and take effective protective measures.
- Do not apply power to the equipment before installation is completed or without confirmation from a qualified person.



Note

- Do not install by untrained personnel. Atmoce shall not be liable for any loss or damage caused by improper use, installation, or misuse of the product.
- Personnel responsible for installing and maintaining the equipment must first be trained in the correct methods of operation and be aware of the various safety precautions and relevant standards in their country/region.
- Personnel in special scenarios such as electrical operation, work at heights, and operation of special equipment must have special operating qualifications required by the local country/region.

1.4 M-Backup Safety Instructions



Danger

- Do not attempt to repair the backup box without authorization, as it does not contain any user repairable components. Unauthorized disassembly, repair, or destruction of the backup box and its internal components will void the warranty. In case of malfunction of the backup box, please contact Atmoce for technical assistance.
- Do not use the backup box in any way other than as specified by Atmoce as unauthorized use may result in personal injury or damage to the equipment.
- Do not use accessories that have not been approved by Atmoce as this may result in equipment damage or personal injury.
- Since the backup box is powered by multiple sources, please confirm that all the circuit breakers are in the Off position before any installation, maintenance or cleaning.
- Do not operate the Atmoce backup box if the appearance is damaged.



Warning

- Check that the cables and connectors to ensure that they are in good condition. Do not operate the backup box with damaged or unqualified cables or connectors.
- Do not disassemble the enclosure and protective panel of the backup box except for necessary maintenance.
- Use the circuit-breakers in the Atmoce backup box in accordance with their markings and do not change their purpose without authorisation.



Note

- When installing the Atmoce backup box, comply with the installation regulations and/or local electrical regulations.
- The backup box is suitable for use in environments with a maximum ambient temperature of 50°C.
- When installing the Atmoce backup box, use copper wires with a temperature resistance of 90°C or higher. Please take full account of local regulations.
- Please select cables that meet safety requirements based on the parameters of the circuit breaker, check the cables and connectors to ensure that they are in good condition and in rated condition.
- Do not connect the backup box to the grid or connect the AC circuit before completing all installation procedures and obtaining approval from the utility company.
- Provide cable supports at least every 1 meter.

1.5 Cable Safety Instructions



Danger

- Do not attempt to install cables unless the circuit is disconnected.
- Take care not to damage the copper conductor of the cable when stripping the cable sheath. If the exposed wires are damaged, the system may not function properly.



Warning

- Ensure that all AC and DC wiring is correct and that none of the AC or DC cables are pinched, shorted, or damaged. Ensure that all AC junction boxes are properly closed.
- Do not leave the connectors on the cable uncovered for long periods of time. Unused AC connectors must be covered with caps because they are energised when the system is powered on.
- All cables must be firmly connected, well insulated, and of appropriate specifications.
- If it is necessary to remove the sealing caps or connectors, use the disconnection tool supplied by Atmoce.



Note

- Cable selection and routing must follow local laws, regulations and norms.
- When routing cables, make sure that the minimum bending radius of cables is 8xOD (8 times the cable's outer diameter) or r55mm.
- In the process of laying power cables, if the length of the power cable is found to be insufficient, the power cable must be replaced, and it is strictly prohibited to make joints or welding points in the power cable.
- Do not expose terminals or cable connectors to continuous tension and avoid pulling or bending the cable at the connection.
- Avoid routing cables with overly tight cable clamps.
- Cable crossing holes should be free of sharp edges to avoid damage to the cables by sharp edges, burrs, and so on.
- Ensure that the cable connector is kept free from dirt or debris and prevent dirt or debris from entering the connector.

1.6 Environment Instructions



Danger

- Do not place the equipment in an environment where flammable or explosive gases or fumes are present, and it is forbidden to carry out any operation in such an operation.
- Do not install or use the equipment in a potentially explosive environment.
- Do not place the equipment near sources of heat or ignition, such as fireworks, candles, heaters or other heat generating devices, as heat from the equipment may result in damage to the equipment or cause a fire.
- Do not expose terminals or connectors to direct sunlight.



Warning

- Do not attempt to install the equipment in adverse weather conditions.
- Do not expose terminals or connectors to directed pressurized liquids (such as water jets).
- Do not immerse the terminals or connectors in liquid.
- Do not install the equipment in an environment with volatile gases, corrosive gases or organic solvents.
- Do not install the equipment in an area with strong vibration, strong noise sources, and strong electromagnetic field interference.
- When installing the equipment, make sure that the mounting surface is sturdy and meets the equipment load-bearing requirements.
- After installing the equipment, remove empty packing materials, such as cardboard boxes, foam, plastic, cable ties, etc., from the equipment area.

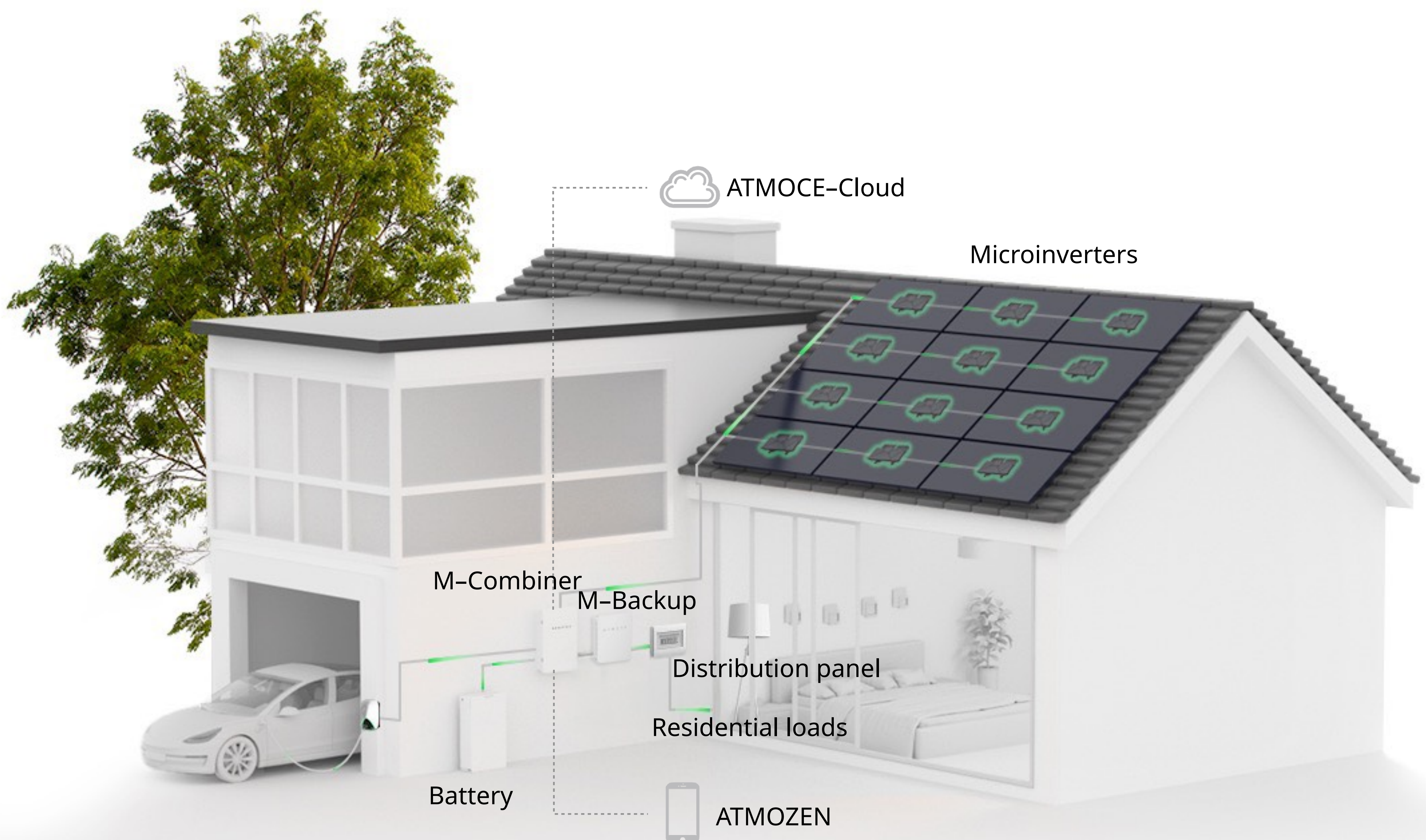
Product Information

2.1 ATMOCE System

2.1.1 Overview

The system includes the following:

- **Microinverter:** ATMOCE microinverters are compact and efficient devices for home distribution systems. They are grid-connected to convert the DC output of a PV module into an AC grid.
- **Combiner box:** It is an energy management equipment that ensures the proper connection of microinverters, batteries, and loads, and enables grid connection to the distribution panel.
- **ATMOCE-CLOUD:** It is a web-based energy management portal, where you can view operation details, manage energy systems, and resolve system issues remotely. For more information, visit <https://www.atmocecloud.com>.
- **ATMOZEN:** A mobile application suitable for iOS and Android devices with the following main functions: remote module level management, home energy management, etc.
- **Backup:** It is an integrated management and power equipment that enable automatic, seamless transitions between grid-connected and off-grid operation modes.
- **Battery**
- **Distribution board**



2.1.2 Functional Characteristics

- **Reliability**

Atmoce sets the industry gold standard with a product lifespan designed for the long haul. Our unique distributed architecture ensures that the system has no single point of failure; if one solar module encounters an issue, the rest of the system continues to operate at peak performance, guaranteeing your energy independence remains uninterrupted.

- **Efficiency**

Harvesting Every Drop of Sun Experience a new level of energy conversion with Atmoce's optimized power electronics. Our micro-inversion efficiency leads the industry, while the storage system delivers a remarkable 90% AC round-trip efficiency. By minimizing energy loss during conversion and storage, we ensure maximum energy harvest, allowing you to power more of your home devices with clean energy.

- **Safety**

Atmoce is proud to introduce the world's first Extra-Low Voltage (ELV) residential system, redefining home energy safety. By maintaining the PV side at < 60V and the residential Battery system at < 30V, we have created an intrinsically safe AC system. Our design completely eliminates the risk of high-voltage DC Arcs and features isolated DC-to-AC conversion, providing the highest level of protection for installers, homeowners and your property.

- **Scalability**

The Atmoce solution eliminates inventory complexity and compatibility concerns. Our universal system supports single-phase, three-phase, and split-phase configurations across residential applications. From retrofits to new installations, Atmoce enables a highly flexible and future-ready energy system.

- **Smart**

The Atmoce smart platform features advanced PV fault diagnostics, enabling real-time issue identification down to the individual module. With cell-level battery management, every cell is optimized for peak performance. In addition to residential energy management, the system is VPP (Virtual Power Plant) ready, allowing participation in grid services and unlocking new revenue streams from stored energy.

2.2 M-Backup

2.2.1 Overview

The M-Backup is an integrated management and power equipment that enable automatic, seamless transitions between grid-connected and off-grid operation modes. During normal grid operation, it coordinates PV power generation for grid feeding or battery charging. During grid outages, it instantly switches to off-grid mode, utilizing solar and batteries to independently and stably power local loads. It ensures system safety, independence and energy utilization.

2.2.2 Functional characteristics

- **Safety & Reliability**

The Atmoce Backup series offers industry-leading durability. With an IP65-rated enclosure, the system is fully protected against dust ingress and high-pressure water jets from any direction. Whether facing blistering heat or freezing winters, its wide operational temperature range of -30°C to 50°C ensures stable performance, providing you with a dependable energy fortress for your home or business, all year round.

- **Seamless Power Transition**

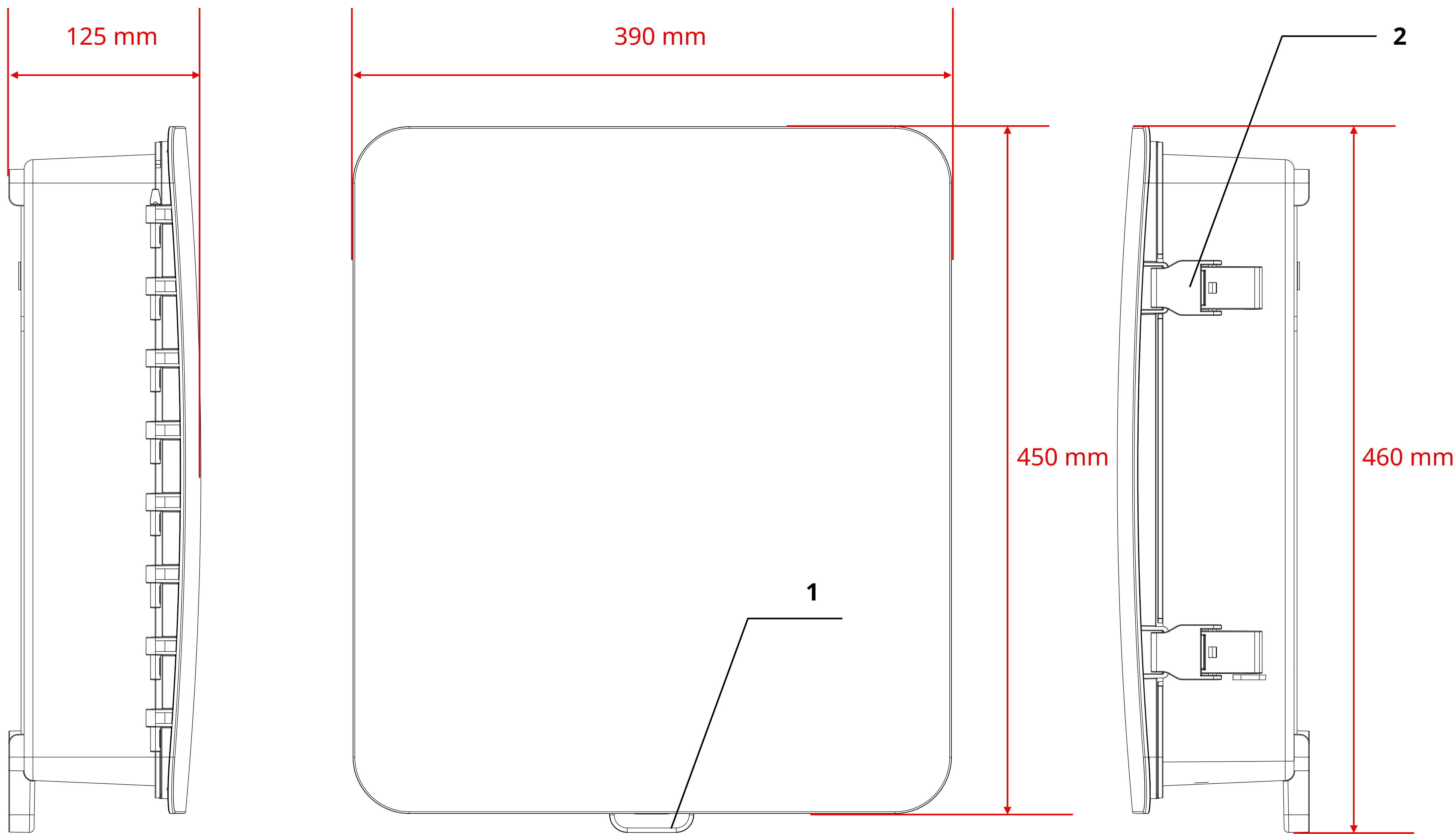
True Load-side Switching Never miss a beat when the grid goes down. The Atmoce Backup system features advanced seamless switching technology. In the event of a power outage, the system transitions from grid power to battery storage instantaneously. This ensures that your sensitive electronics remain powered without a single millisecond of interruption.

- **Compatibility**

Atmoce provides a truly open energy ecosystem. Our backup solution supports seamless collaboration with all 3rd-party PV systems, including both microinverters and string inverters. This makes it the ideal choice for both new installations and retrofitting existing solar arrays. Beyond flexibility, we deliver raw power where it matters most. The system supports high-capacity backup loads: Single-Phase: Up to 11.6kW, Three-Phase: Up to 34.9kW. With the ability to cover the most of typical household backup scenarios, Atmoce ensures that your essential appliances—from HVAC systems to high-power kitchen equipment—stay operational during any grid outage.

2.2.3 Product Structure-MU100-S

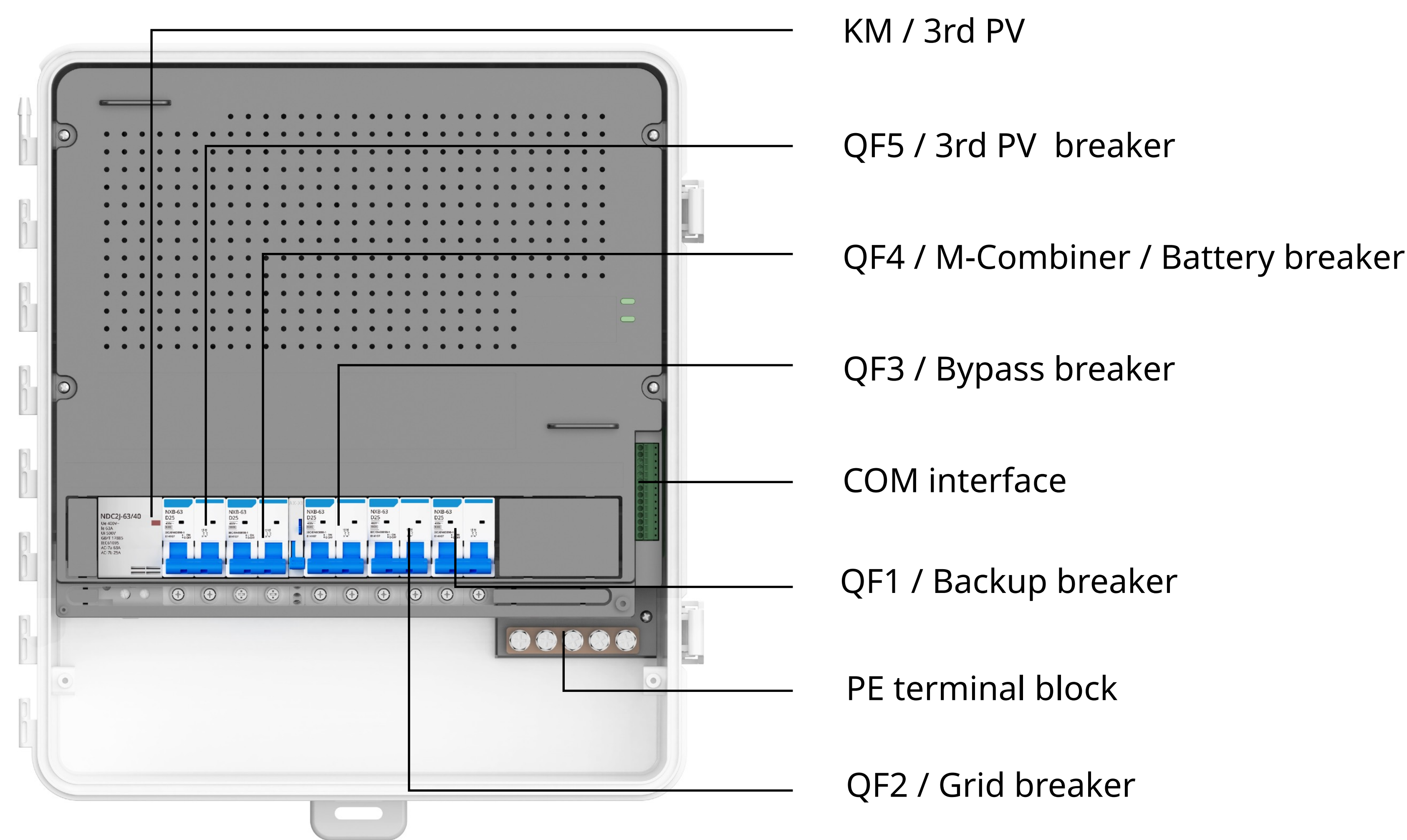
Section A. MU100-S Dimensions



- 1. Mounting Tab
- 2. Door Locks

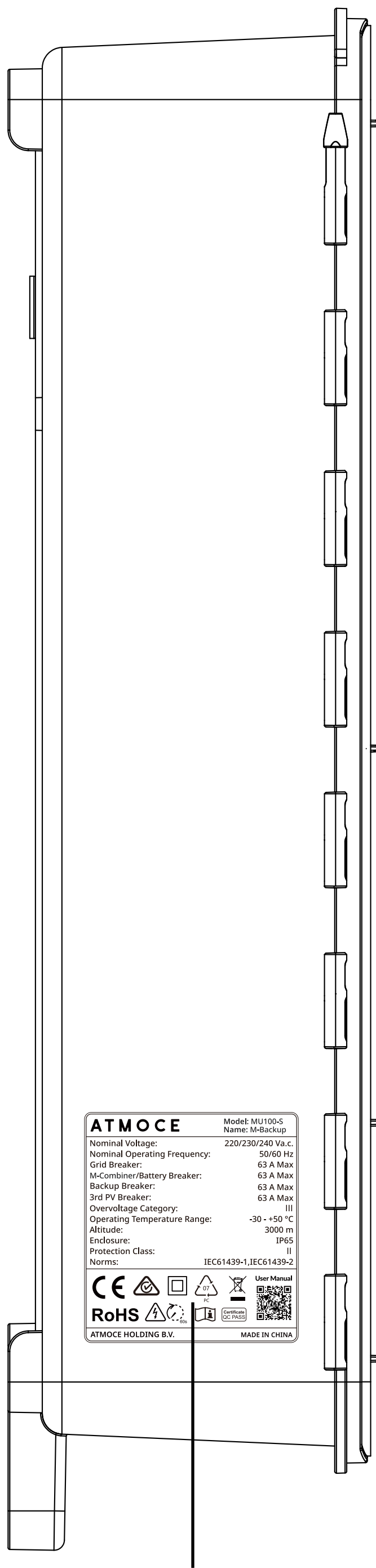
Section B. Items inside the MU100-S

Open the door of the MU100-S and refer to the following figure and table for pre-installed components in the MU100-S.

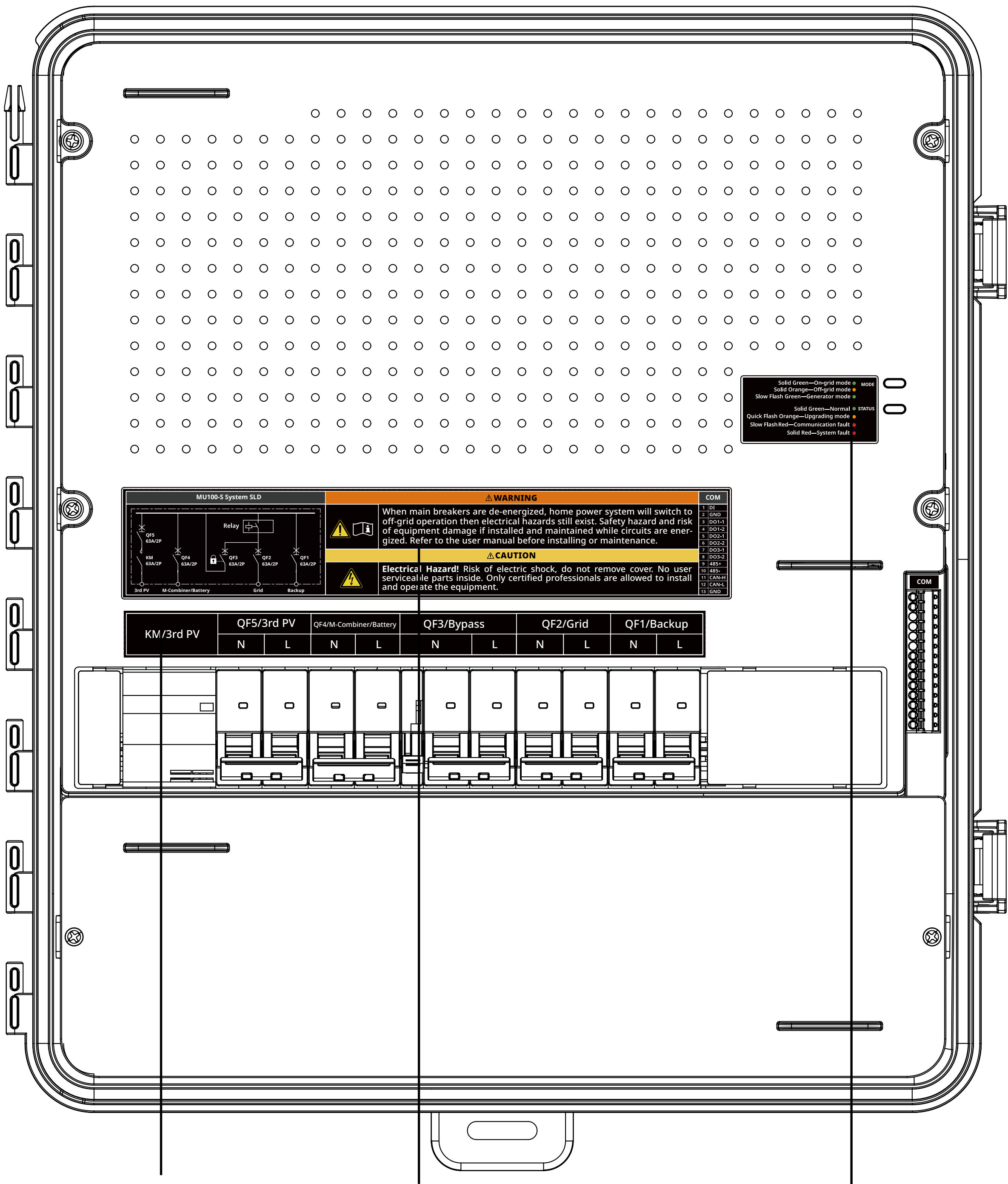


Catalog	Model	Description
QF1 / Backup breaker	NXB-63 2P D63	2-pole, 63A, 400V, 6kA
QF2 / Grid breaker	NXB-63 2P D63	2-pole, 63A, 400V, 6kA
QF3 / Bypass breaker	NXB-63 2P D63	2-pole, 63A, 400V, 6kA
QF4 / M-Combiner / Battery breaker	NXB-63 2P D63	2-pole, 63A, 400V, 6kA
QF5 / 3rd PV breaker	NXB-63 2P D63	2-pole, 63A, 400V, 6kA
PE terminal block	/	/
COM interface	BO-3.81-14P-GN-18-M1	14 terminals
KM / 3rd PV	NDC2J 63A 2NO	2-pole, 63A

2.2.4 Product Labels-MU100-S



Nameplate Label



Breaker Function and MU100-S Safety Instruction MU100-S LED Indicator and Wire Diagram

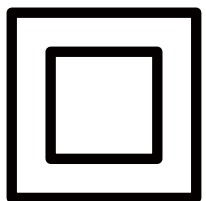
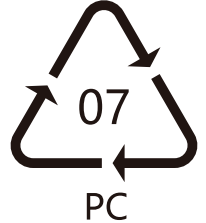
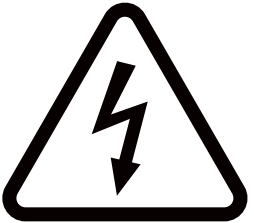
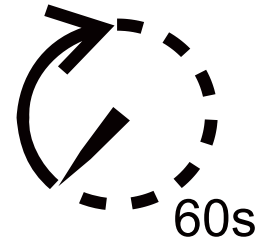
Section A. MU100-S Safety Instructions

The following safety instructions appear on the protective panel:

⚠ WARNING	
	When main breakers are de-energized, home power system will switch to off-grid operation then electrical hazards still exist. Safety hazard and risk of equipment damage if installed and maintained while circuits are energized. Refer to the user manual before installing or maintenance.
⚠ CAUTION	
	Electrical Hazard! Risk of electric shock, do not remove cover. No user serviceable parts inside. Only certified professionals are allowed to install and operate the equipment.

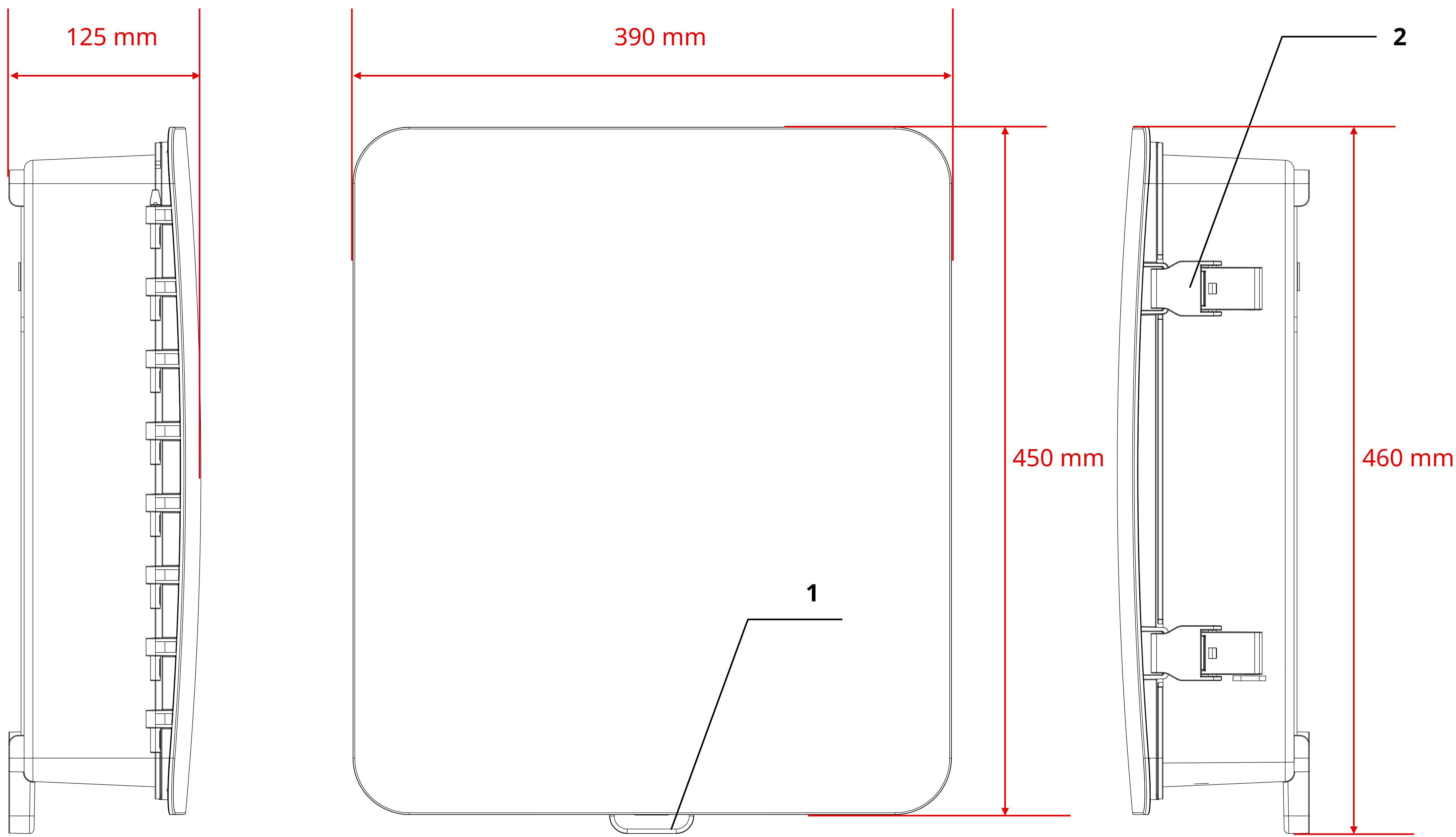
Section B. Nameplate Label Symbols

The following symbols appear on the nameplate label:

Lable	Description
	EU mandatory mark (meets safety / environmental rules for EU market access).
	Repairable/recyclable (supports disassembly / recycling).
	Equipment protected throughout by double insulation or reinforced insulation.
	Plastic type 7 (polycarbonate, for casings/components).
	Do not discard as household waste (recycle as e-waste per EU WEEE rules).
RoHS	Complies with EU limits on hazardous metals (lead, mercury, etc.).
	High-voltage hazard (do not disassemble).
	Wait 60s to reset / restart after anomalies (e.g., overload).
	Read the instruction manual before use.
	Factory quality inspection approved (meets delivery standards).

2.2.5 Product Structure-MU100-T

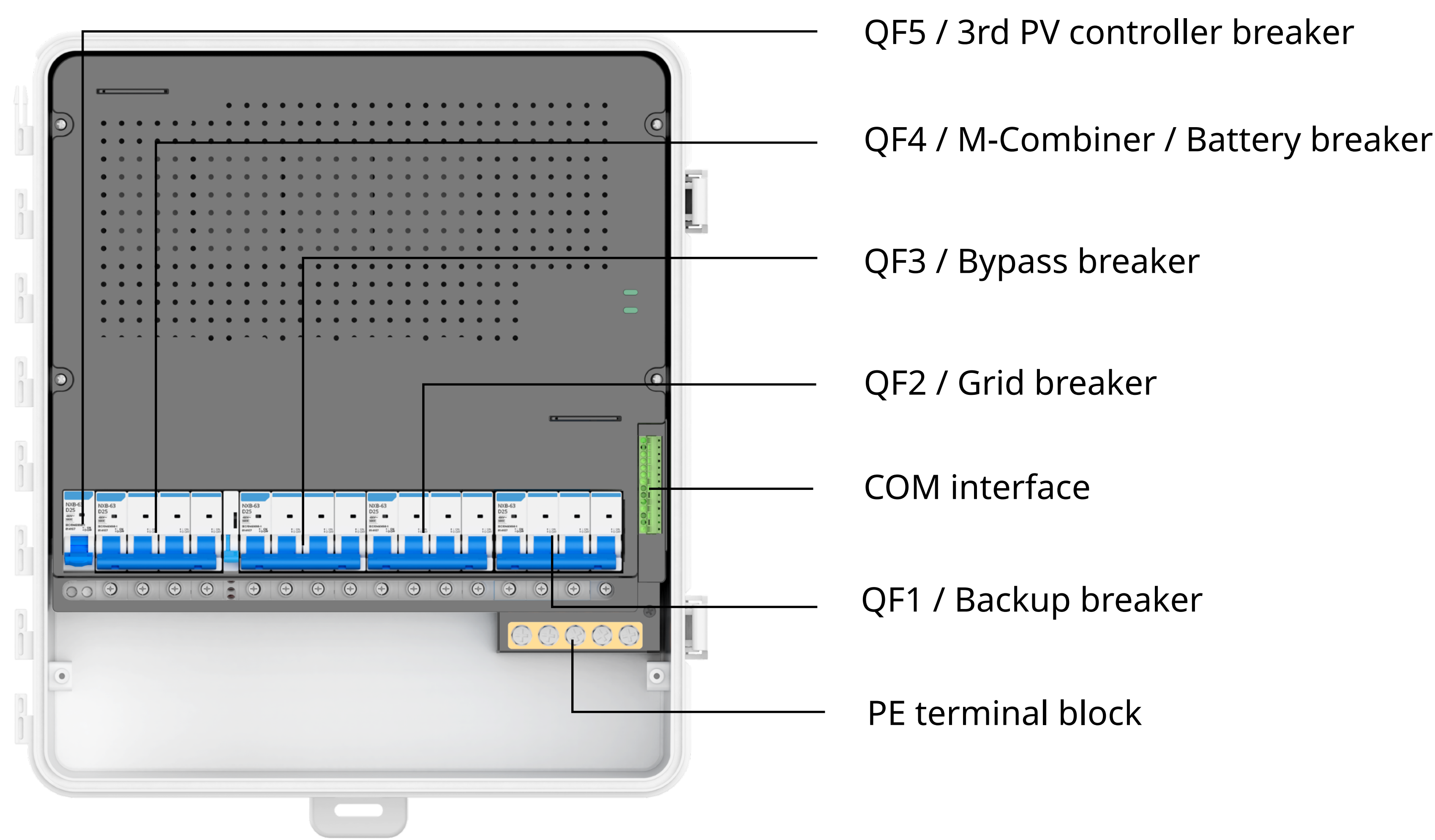
Section A. MU100-T Dimensions



- 1. Mounting Tab
- 2. Door Locks

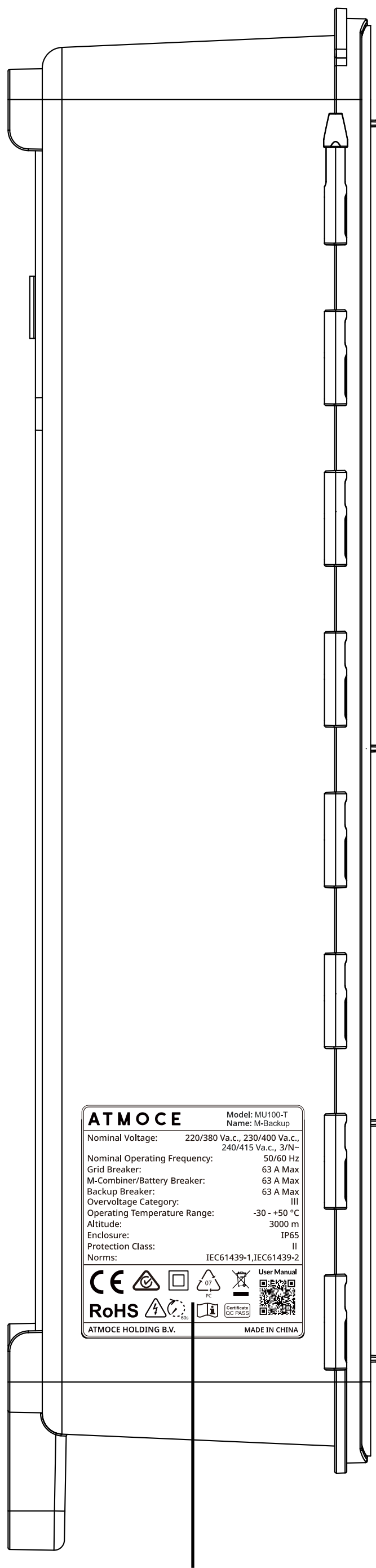
Section B. Items inside the MU100-T

Open the door of the MU100-T and refer to the following figure and table for pre-installed components in the MU100-T.

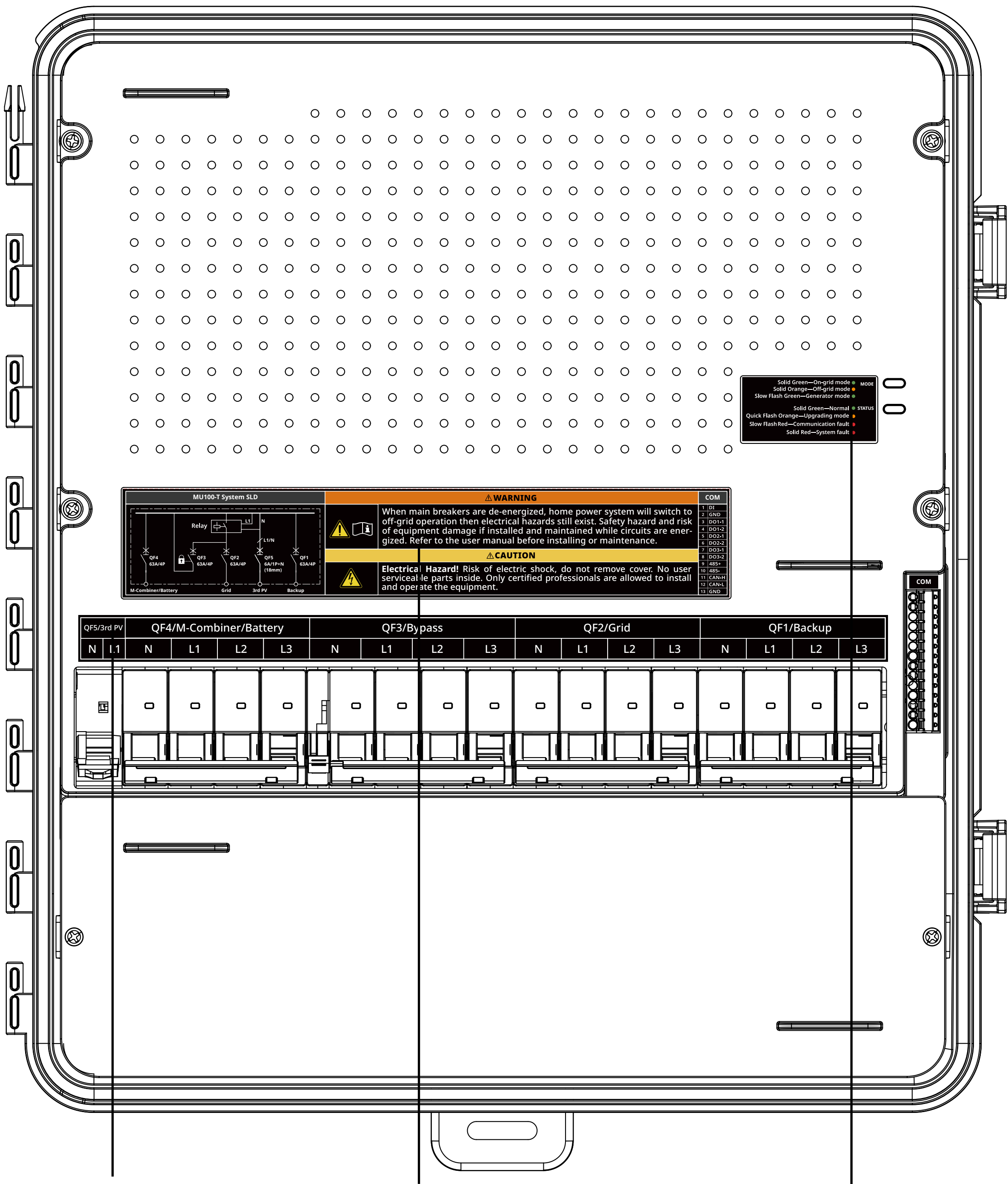


Catalog	Model	Description
QF5 / 3rd PV controller breaker	NBH8-40H C6	1+N, 6A
QF4 / M-Combiner / Battery breaker	NXB-63 4P D63	4-pole, 63A, 400V, 6kA
QF3 / Bypass breaker	NXB-63 4P D63	4-pole, 63A, 400V, 6kA
QF2 / Grid breaker	NXB-63 4P D63	4-pole, 63A, 400V, 6kA
QF1 / Backup breaker	NXB-63 4P D63	4-pole, 63A, 400V, 6kA
COM interface	BO-3.81-14P-GN-18-M1	14 terminals
PE terminal block	/	/

2.2.6 Product Labels-MU100-T



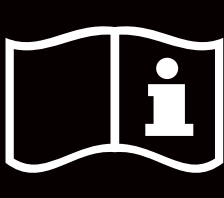
Nameplate Label



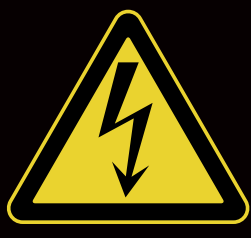
Breaker Function and MU100-T Safety Instruction MU100-T LED Indicator and Wire Diagram

Section A. MU100-T Safety Instructions

The following safety instructions appear on the protective panel:



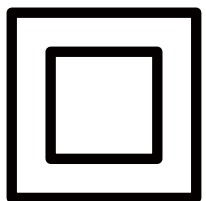
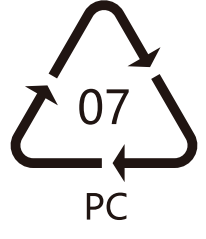
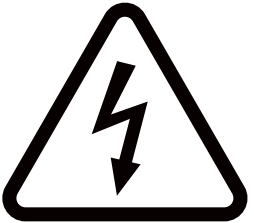
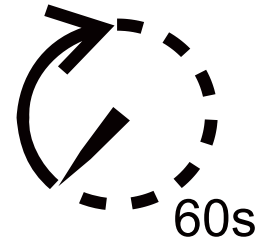
When main breakers are de-energized, home power system will switch to off-grid operation then electrical hazards still exist. Safety hazard and risk of equipment damage if installed and maintained while circuits are energized. Refer to the user manual before installing or maintenance.



Electrical Hazard! Risk of electric shock, do not remove cover. No user serviceable parts inside. Only certified professionals are allowed to install and operate the equipment.

Section B. Nameplate Label Symbols

The following symbols appear on the nameplate label:

Lable	Description
	EU mandatory mark (meets safety / environmental rules for EU market access).
	Repairable/recyclable (supports disassembly / recycling).
	Equipment protected throughout by double insulation or reinforced insulation.
	Plastic type 7 (polycarbonate, for casings/components).
	Do not discard as household waste (recycle as e-waste per EU WEEE rules).
RoHS	Complies with EU limits on hazardous metals (lead, mercury, etc.).
	High-voltage hazard (do not disassemble).
	Wait 60s to reset / restart after anomalies (e.g., overload).
	Read the instruction manual before use.
	Factory quality inspection approved (meets delivery standards).

Storage Requirements

3.1 Storage Requirements

If the product is not to be used and installed immediately, it must be stored in accordance with the following requirements:

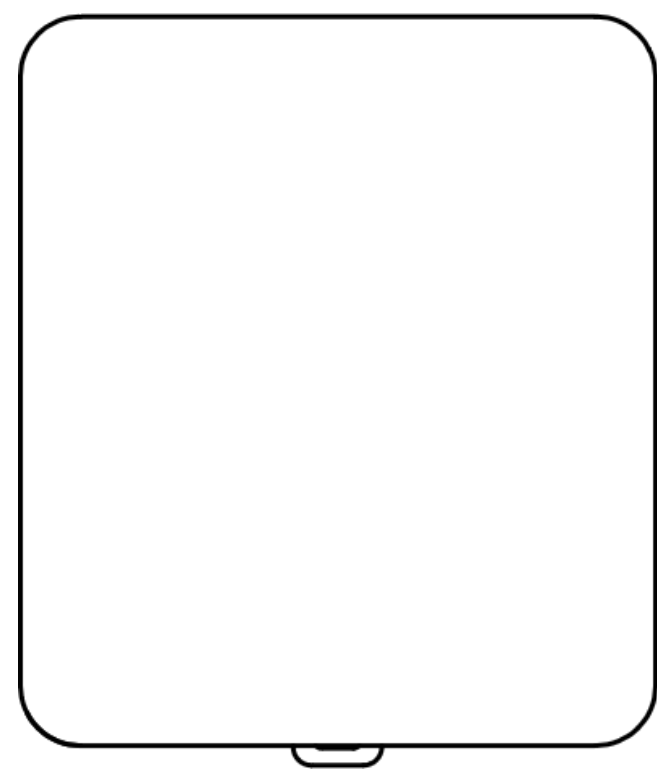
- Do not remove the outer packaging of the product.
- The storage temperature should be maintained within $-40\text{ }^{\circ}\text{C}$ to $+70\text{ }^{\circ}\text{C}$.
- The relative humidity should be maintained between 4% RH and 100% RH.
- Store the product in a clean and dry place, away from dust and moisture.
- Stack no more than 8 layers high. When stacking, please be careful when placing the packaging box to avoid personal injury or equipment damage caused by equipment tipping over.
- Regular inspections are required during storage (once every three months recommended). If the product has been placed in storage for two years or longer, it must be inspected and tested by qualified personnel before use.

MU100-S Installation

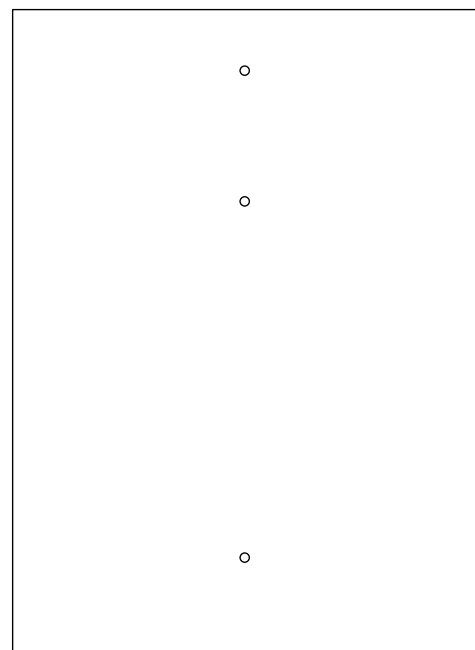
4.1 Prepare for Installation

4.1.1 Check the Items in the Package

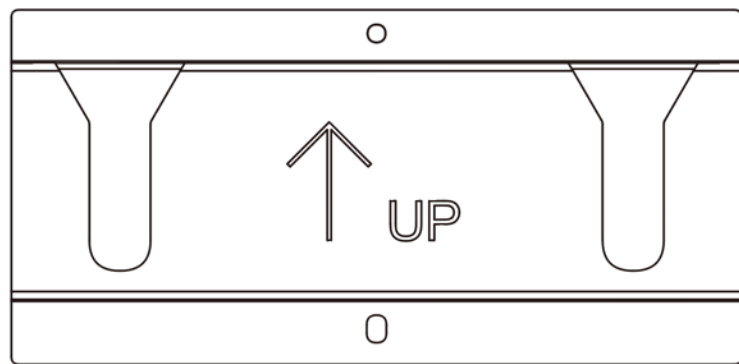
Please make sure that the following items are included in the package before installation.



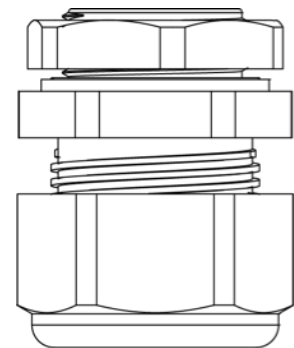
M-Backup



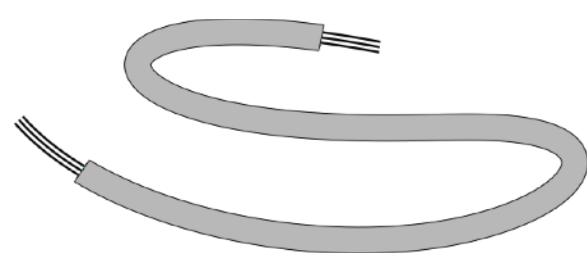
Marking plate



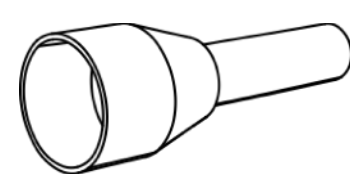
Mounting plate



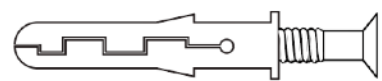
Waterproof glands



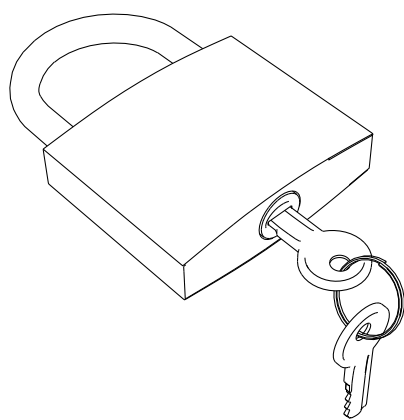
CAN Communication cable



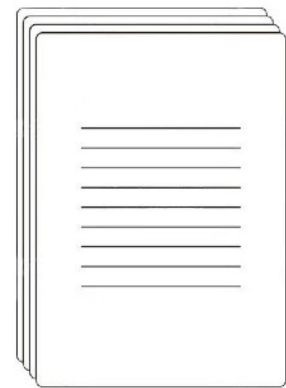
Cold-press terminals



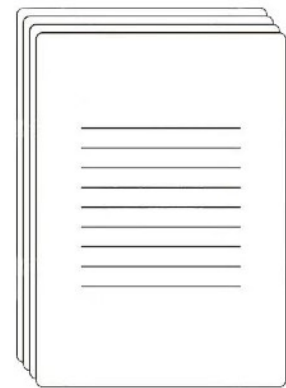
Wall anchors and screws



Lock and key



Delivery inspection report



Quick installation guide

4.1.2 Check the Grid Voltage

The M-Backup should connect to a single-phase grid. Measure the AC voltage at the point of connection to confirm that it is within the range.

Phase setup		Voltage range	
Single-phase		L to N	176 to 276 Vac

4.1.3 Prepare the Cables

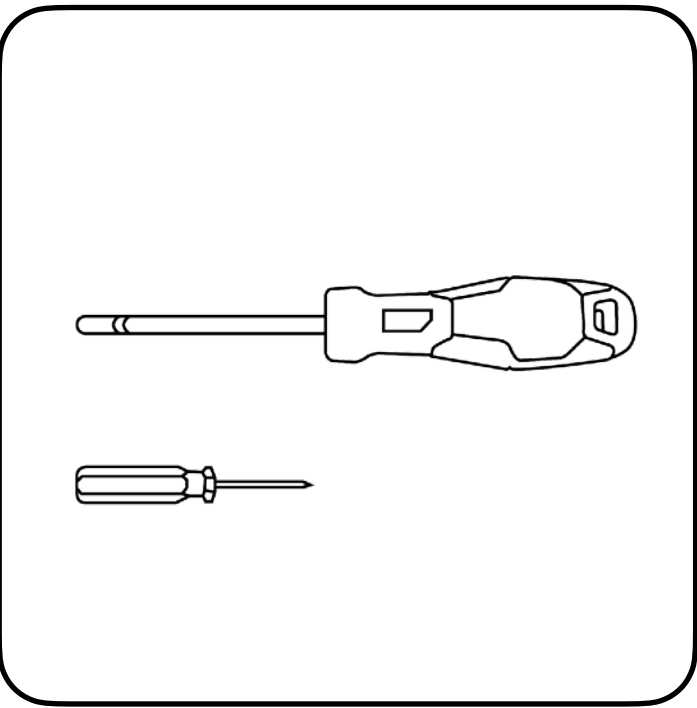
To properly set up the system, it is necessary to select the appropriate cables. The table below shows the recommended cable requirements.

Connection		Recommended cable size		Terminal requirement
Grid	Power cable	6 to 25 mm ² , 2-core or 3-core		Cold-pressed Terminal
	Power cable	6 to 25 mm ² , 2-core or 3-core		Cold-pressed Terminal
	Power cable	6 to 25 mm ² , 2-core or 3-core		Cold-pressed Terminal
COM interface		Communication cable	0.25 to 0.75 mm ²	Cold-pressed Terminal

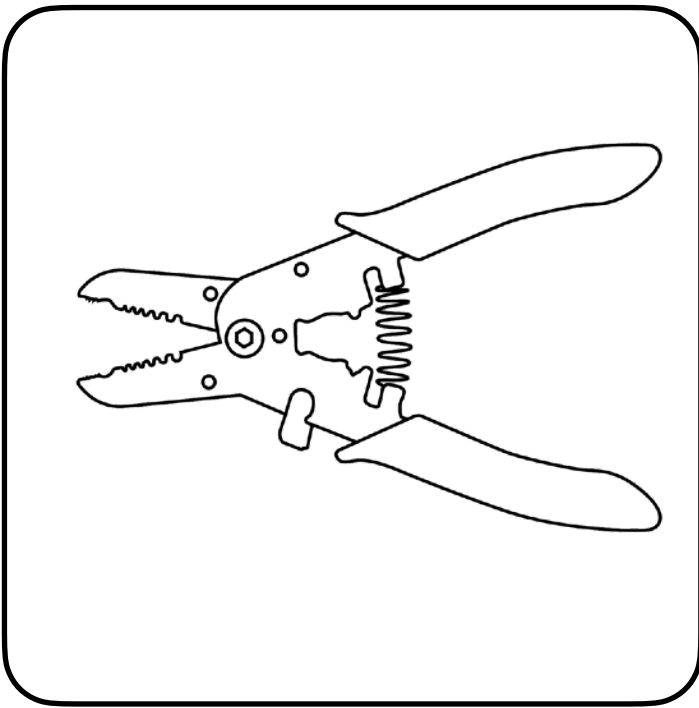
NOTE:

- When connecting the cables to the M-Backup, you must cover the cable ends by using the proper cold-press terminal.
- When stripping the cable, remove 12mm of the insulation layer from the power cable and 8 mm of insulation layer from the communication cable.

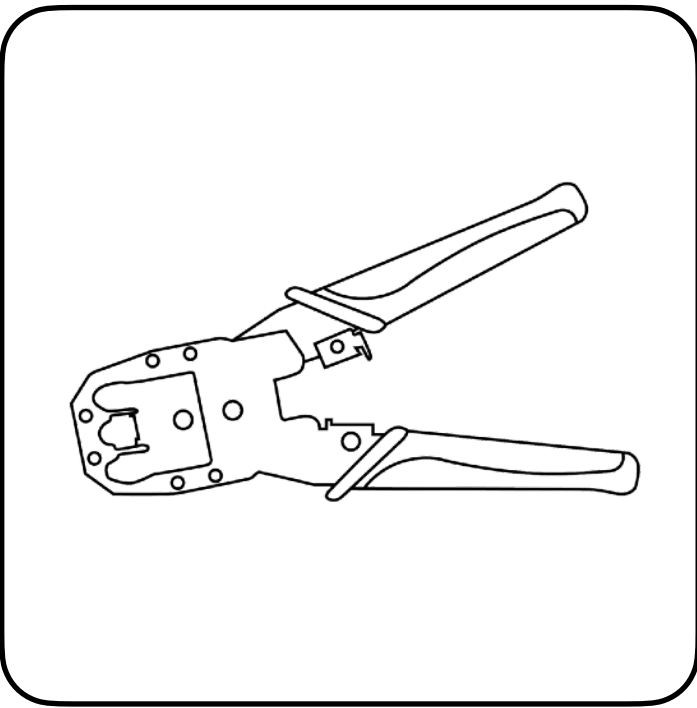
4.1.4 Prepare the Tools and Materials



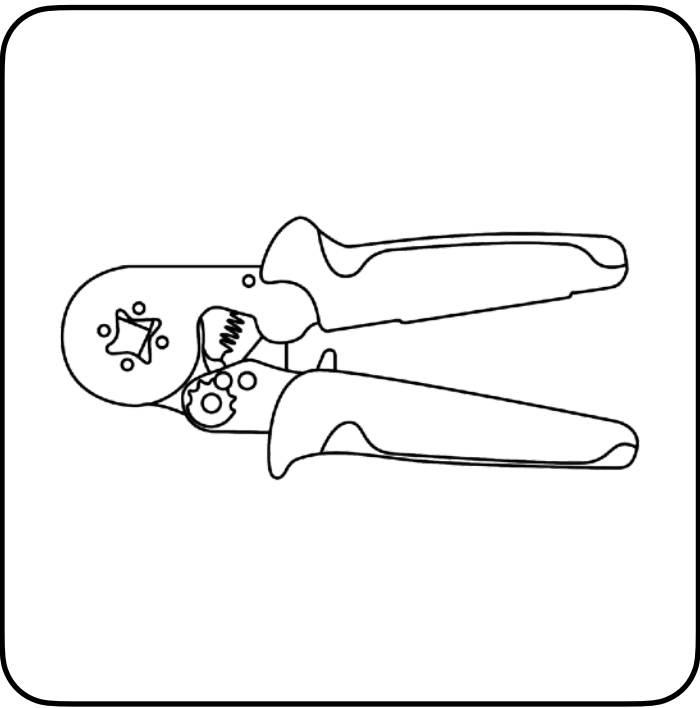
Screwdriver(M8)



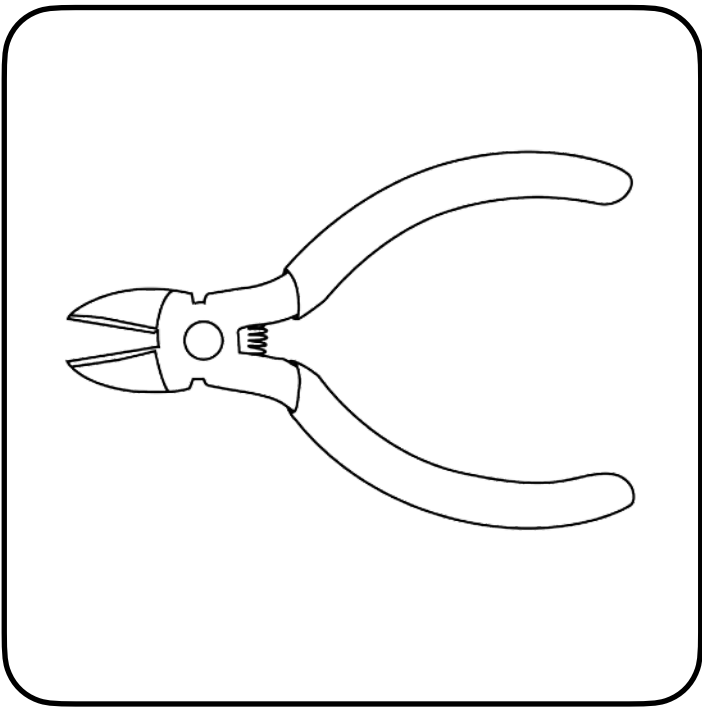
Wire stripper



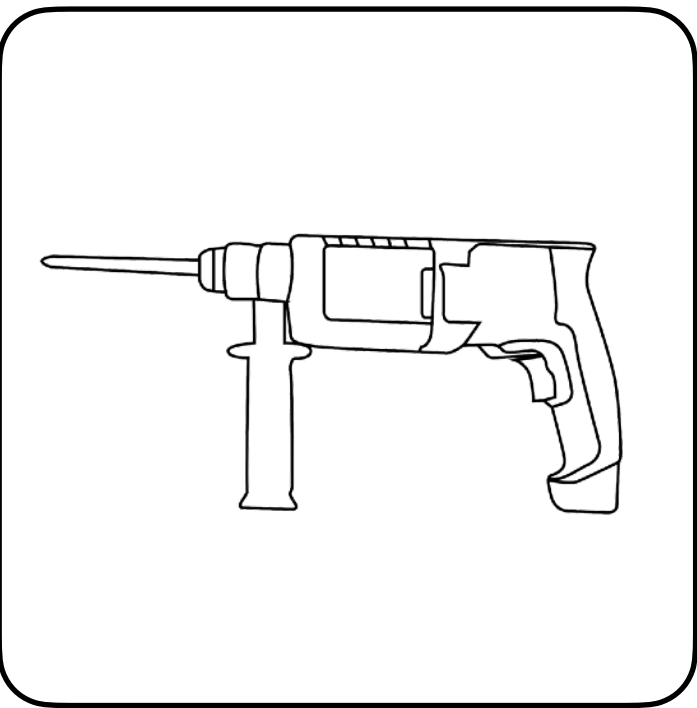
Power line crimper



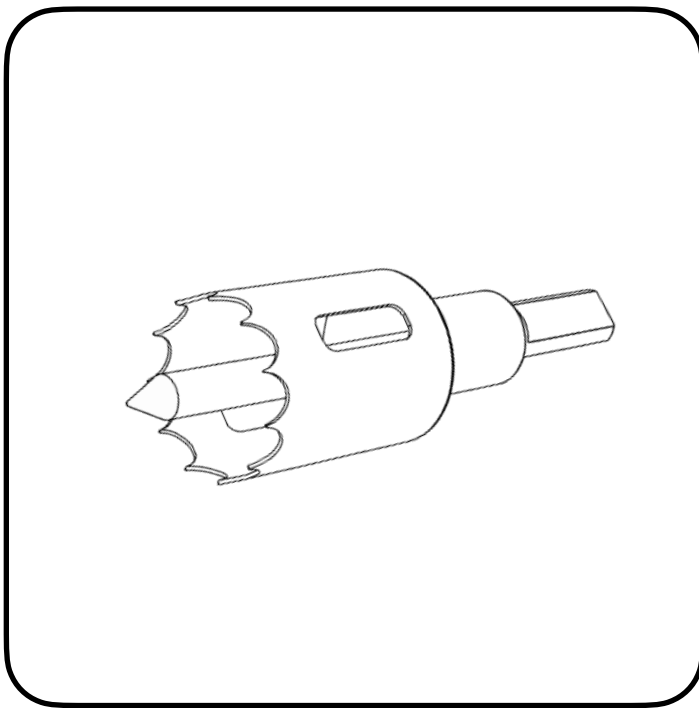
Communication line crimper



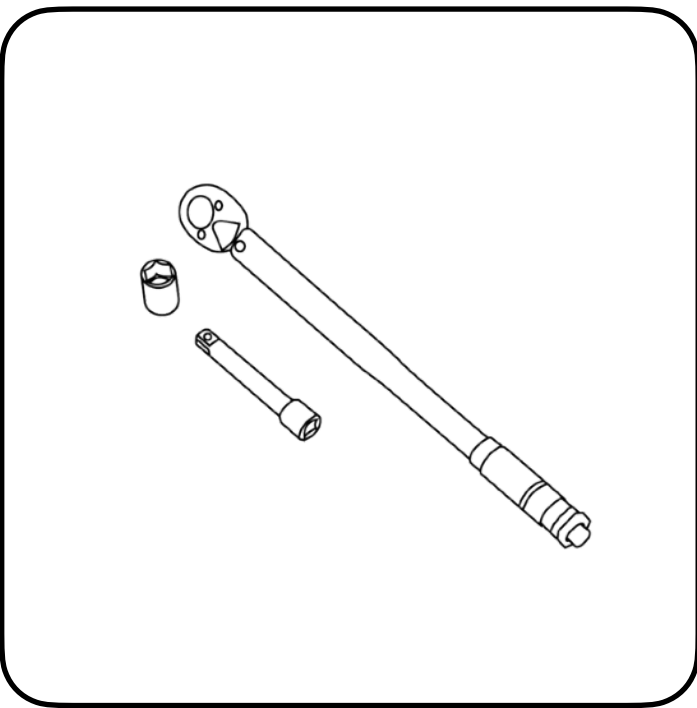
Diagonal cutter



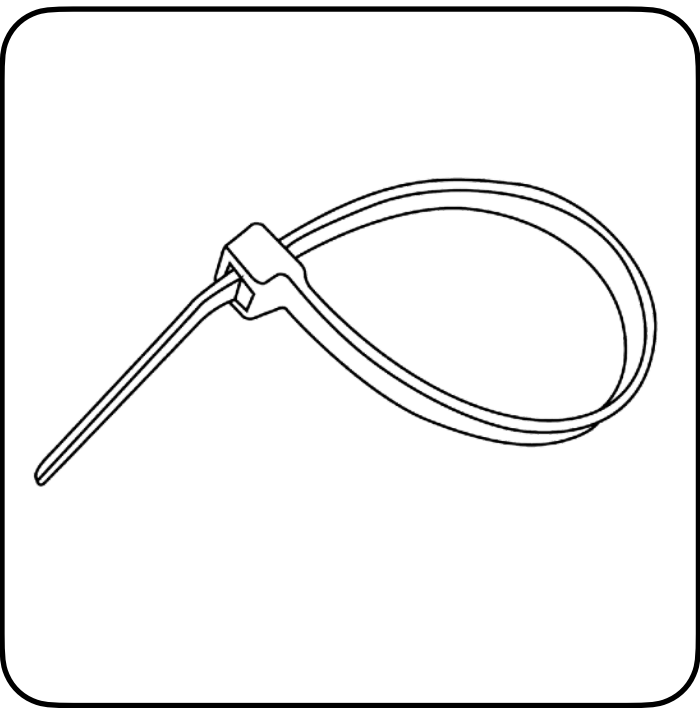
Drill



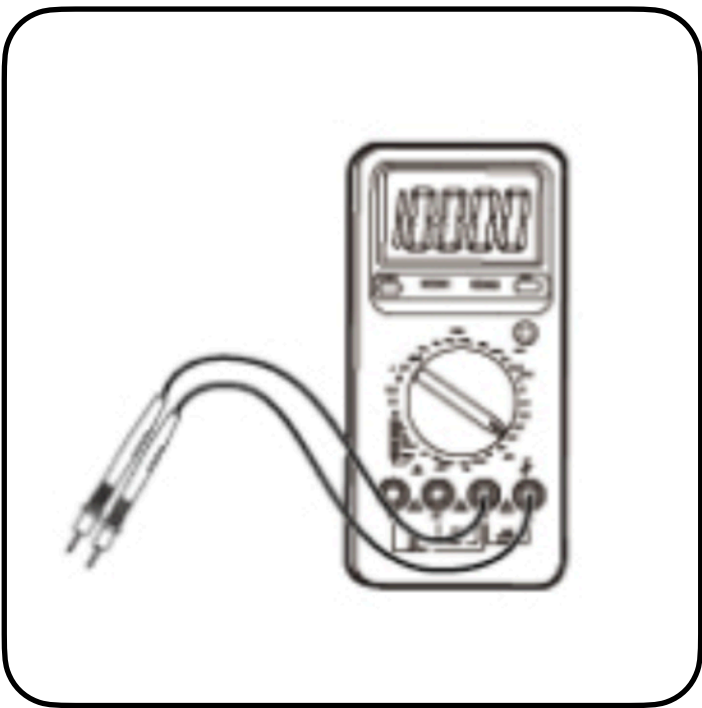
Hole cutter with pilot
(Φ40, Φ32 mm and Φ25 mm)



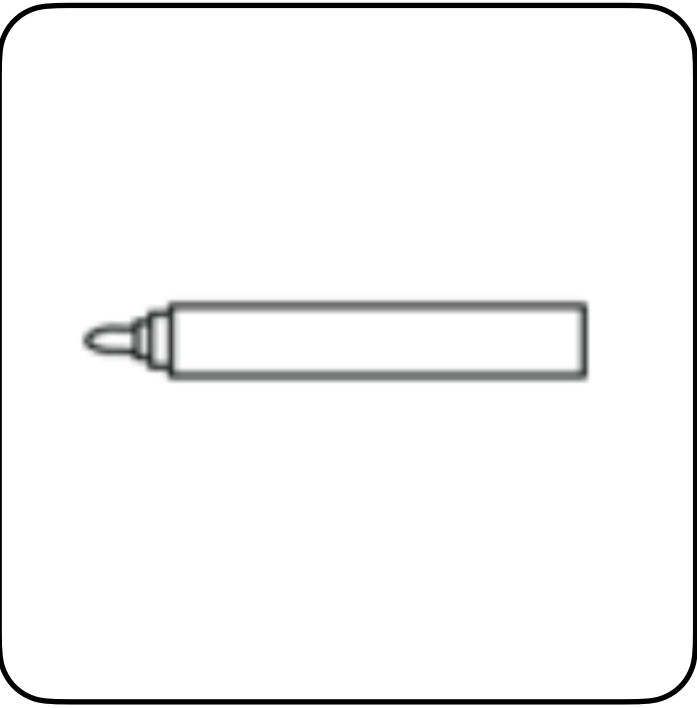
Torque wrench



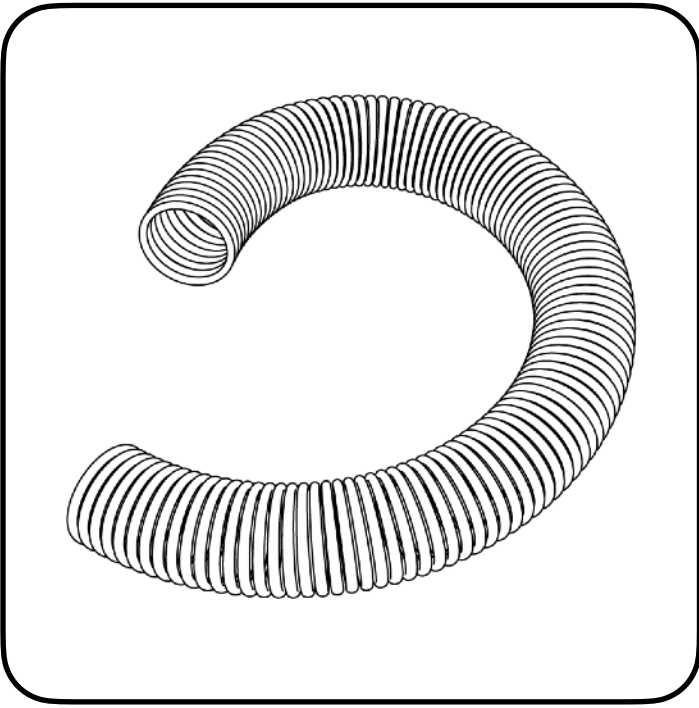
Tie wrap



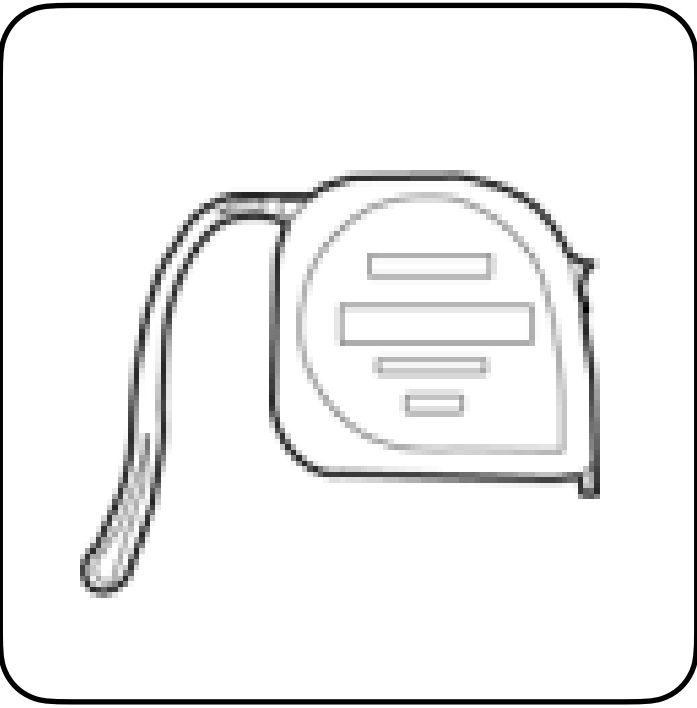
Multimeter



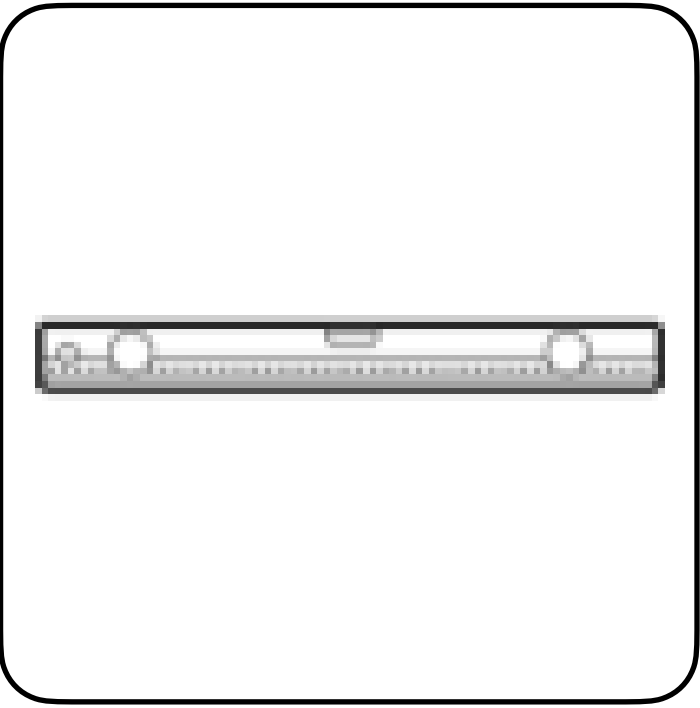
Marking pen



Corrugated protective pipe

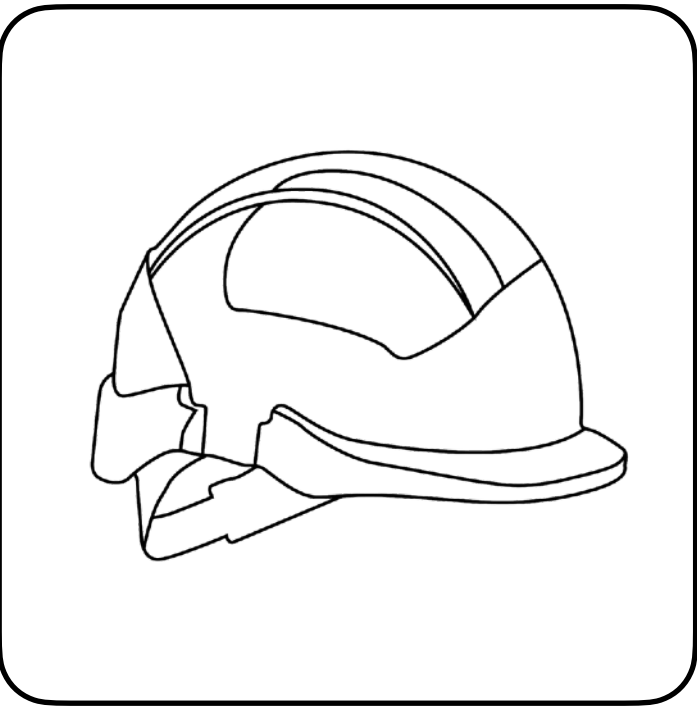


Tape measure

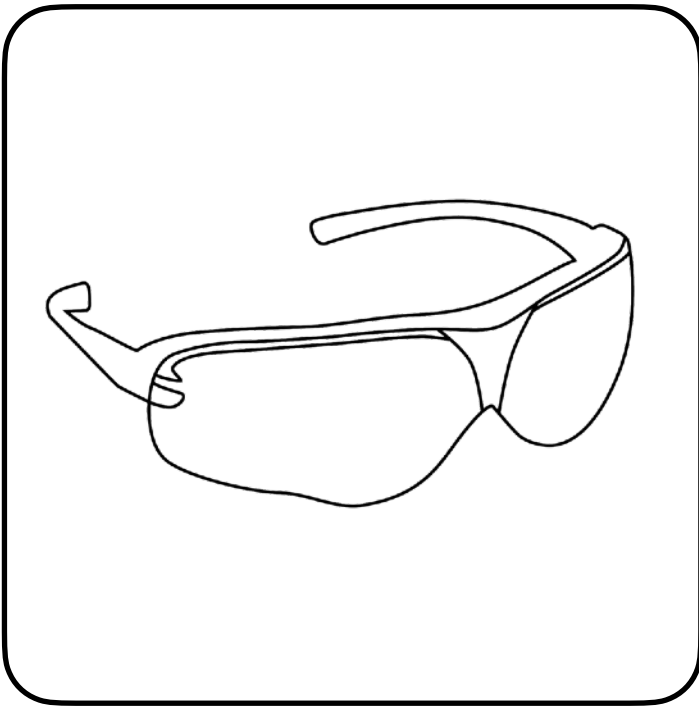


Spirit level

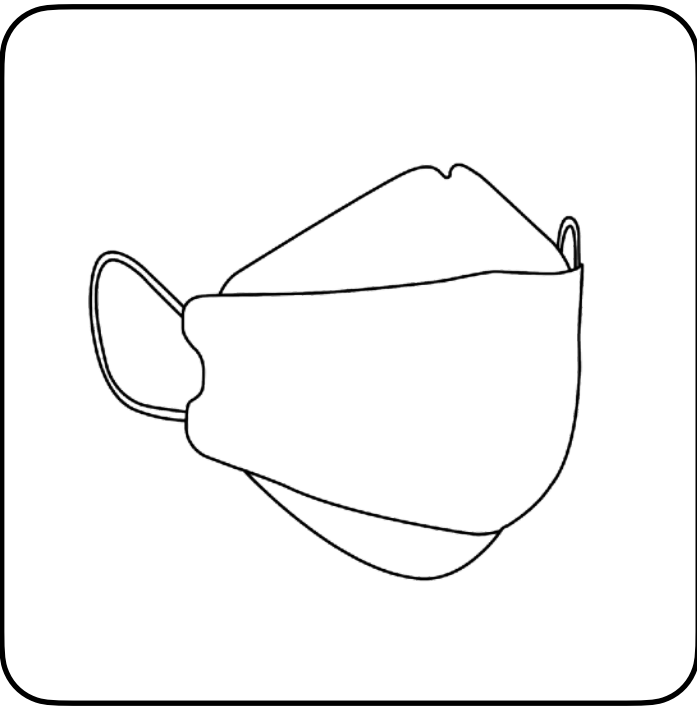
4.1.5 Prepare the Safety Equipment



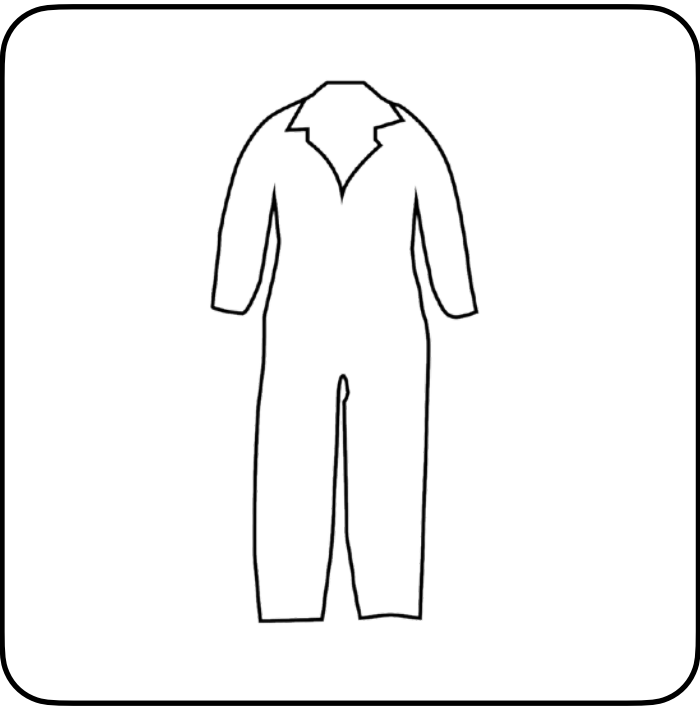
Safety helmet



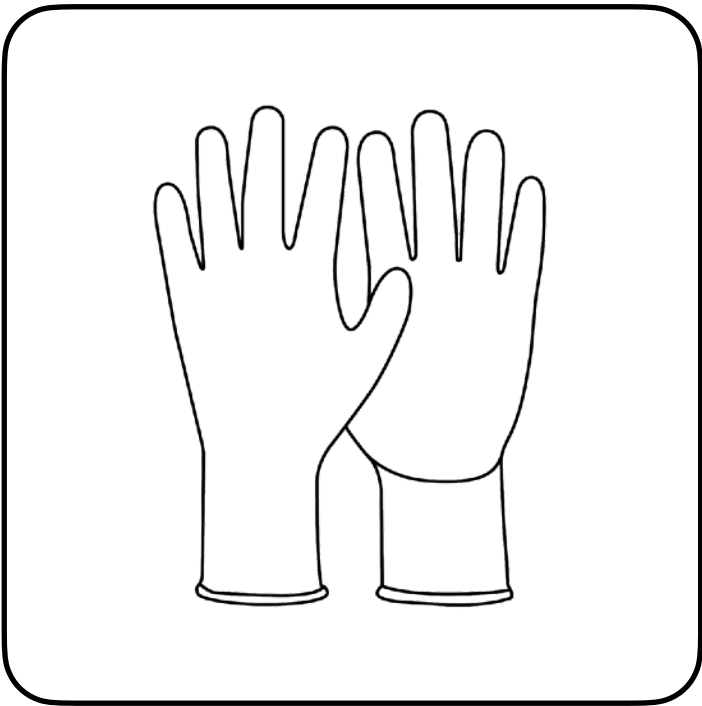
Protective goggles



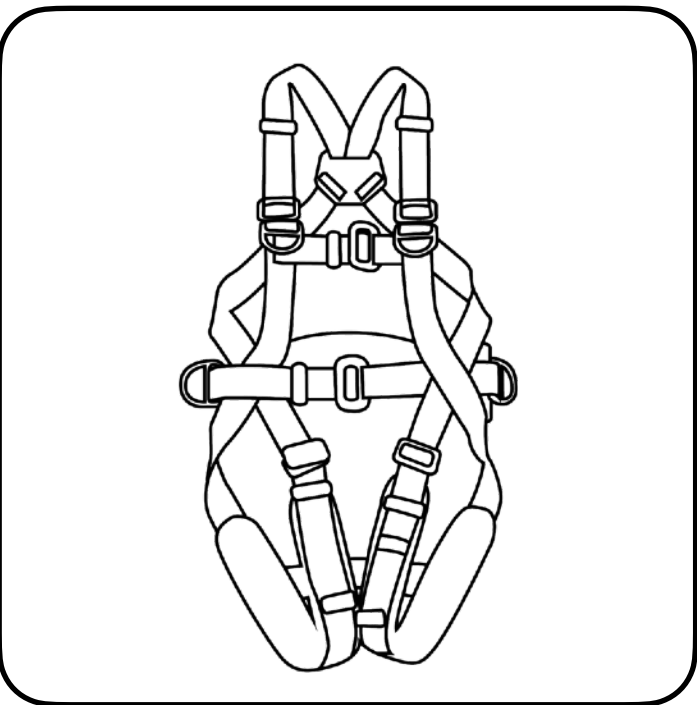
Mask



Safety clothing



Safety gloves



Safety belt



Safety shoes

4.1.6 Download the ATMOZEN App

Download the latest version of the ATMOZEN app. Open and log in to your account. You can track the progress of system installation with this app.

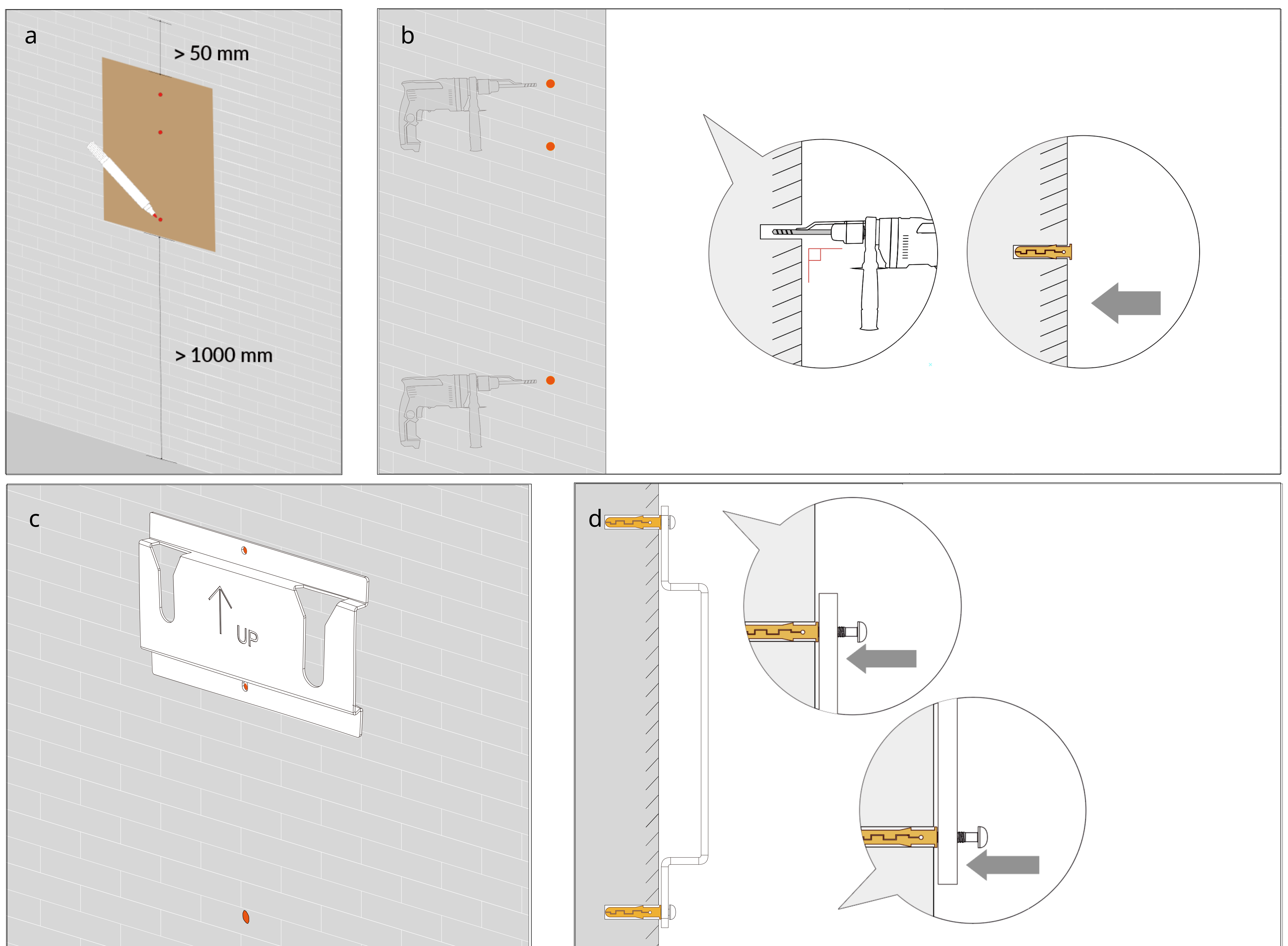


4.2 Mount the M-Backup

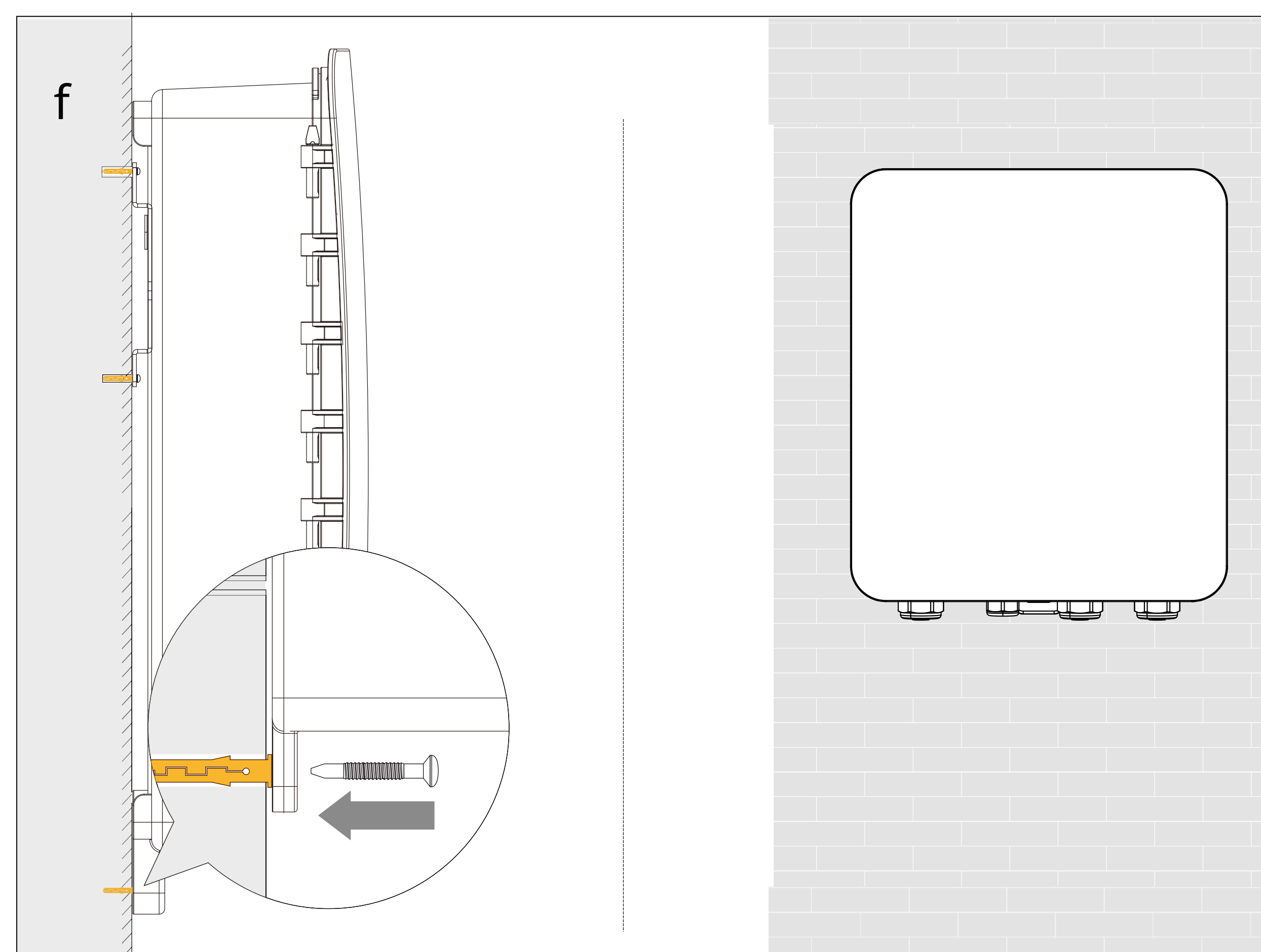
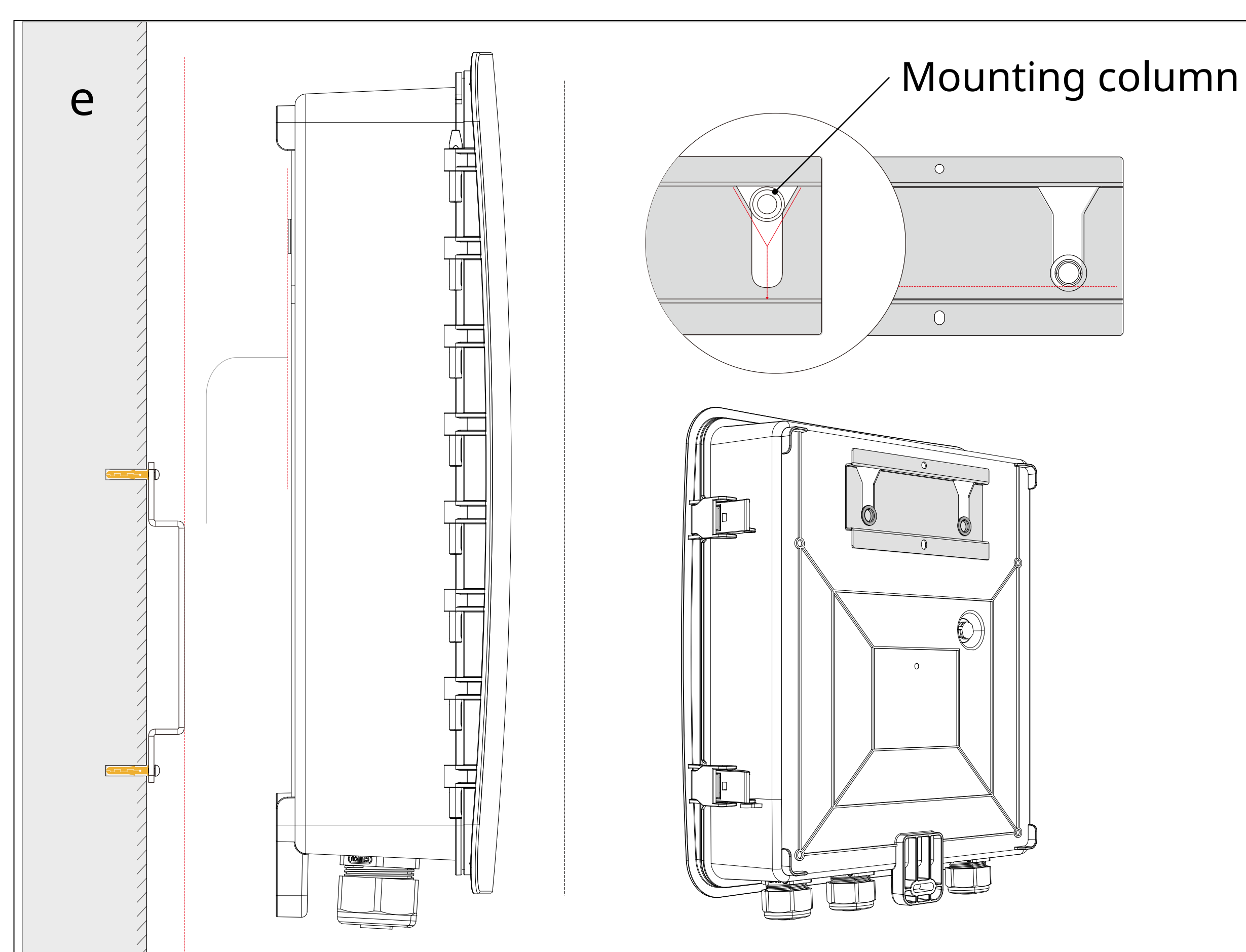
- Take out the marking plate and place it on the wall. Use the spirit level to check that the plate is level, then make the marks.
- Drill along these marks by using an electric drill with a bit ($\Phi 8$) and insert the wall anchors (along with the mounting plate) into the holes.
- Take out the mounting plate and align the screw holes with the wall anchors.
- Insert and tighten the M6 screws by using a Phillips #2 screwdriver with a torque of 2.5–3.5 N·m.

NOTE:

- Do not expose the M-Backup to direct sunlight, unless installing a sunshade.

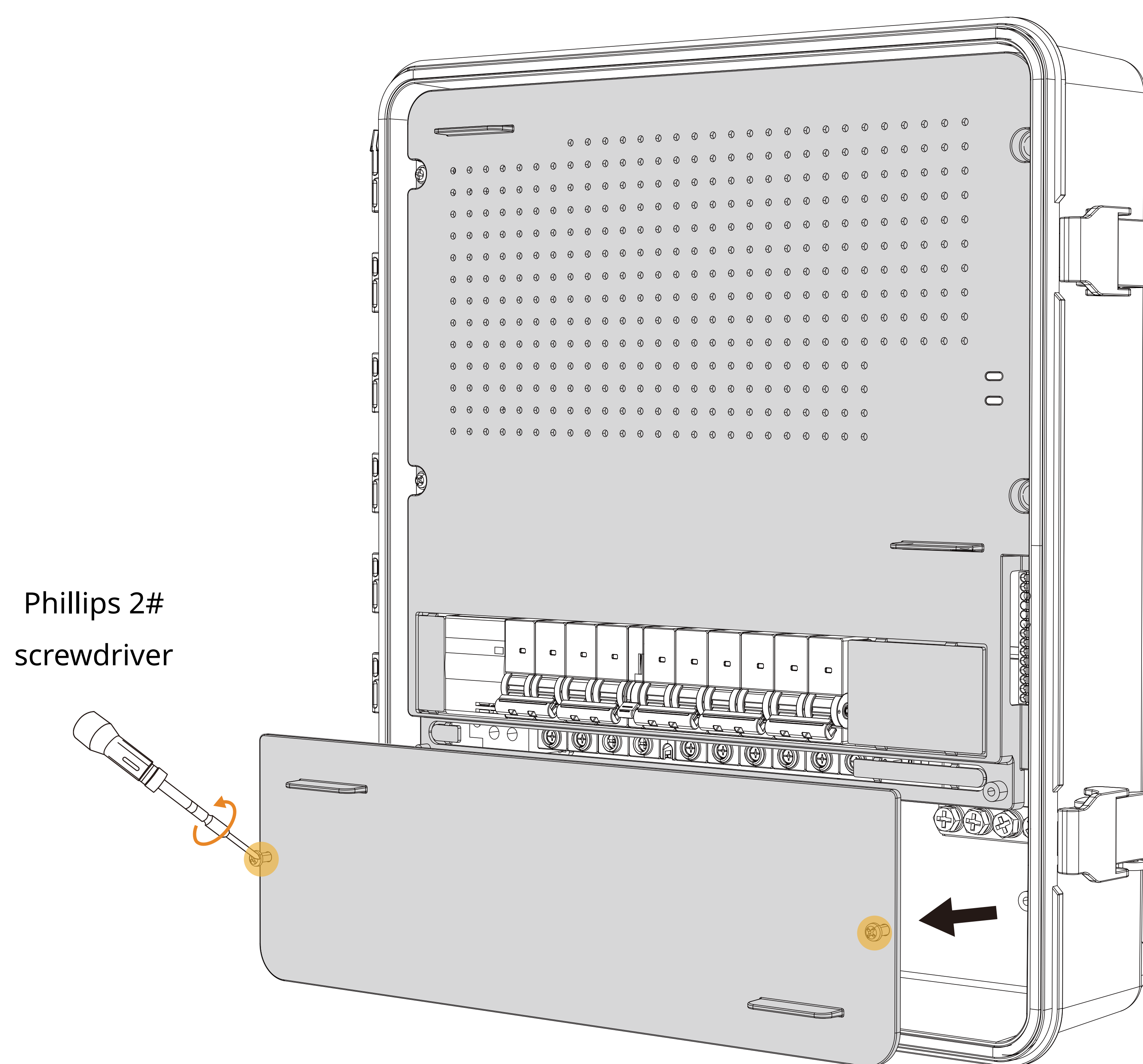


- e. Insert the two mounting columns at the bottom of the M-Backup into the sliding rail and slide them to the end.
- f. Insert the M6 screws into the bottom hole and tighten the screws by using a Phillips #2 screwdriver with a torque of 2.5–3.5 N·m.



4.3 Remove the Protective Cover

- Open the door and use a Phillips #2 screwdriver to remove the protective cover.
- Take out the accessories from the cabinet. For accessory details, please refer to the "M-Backup delivery list" in the package.

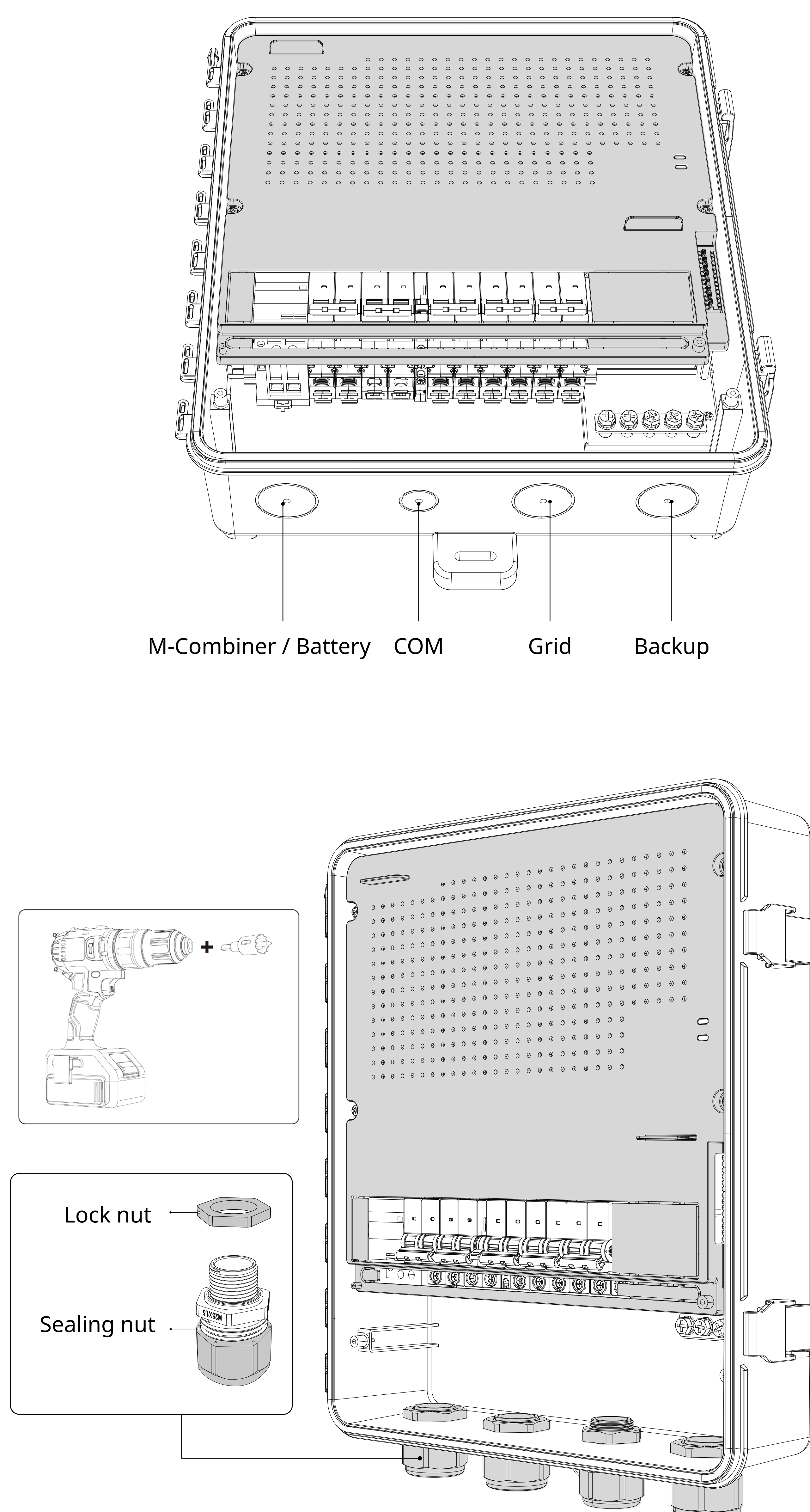


4.4 Remove the Knockouts

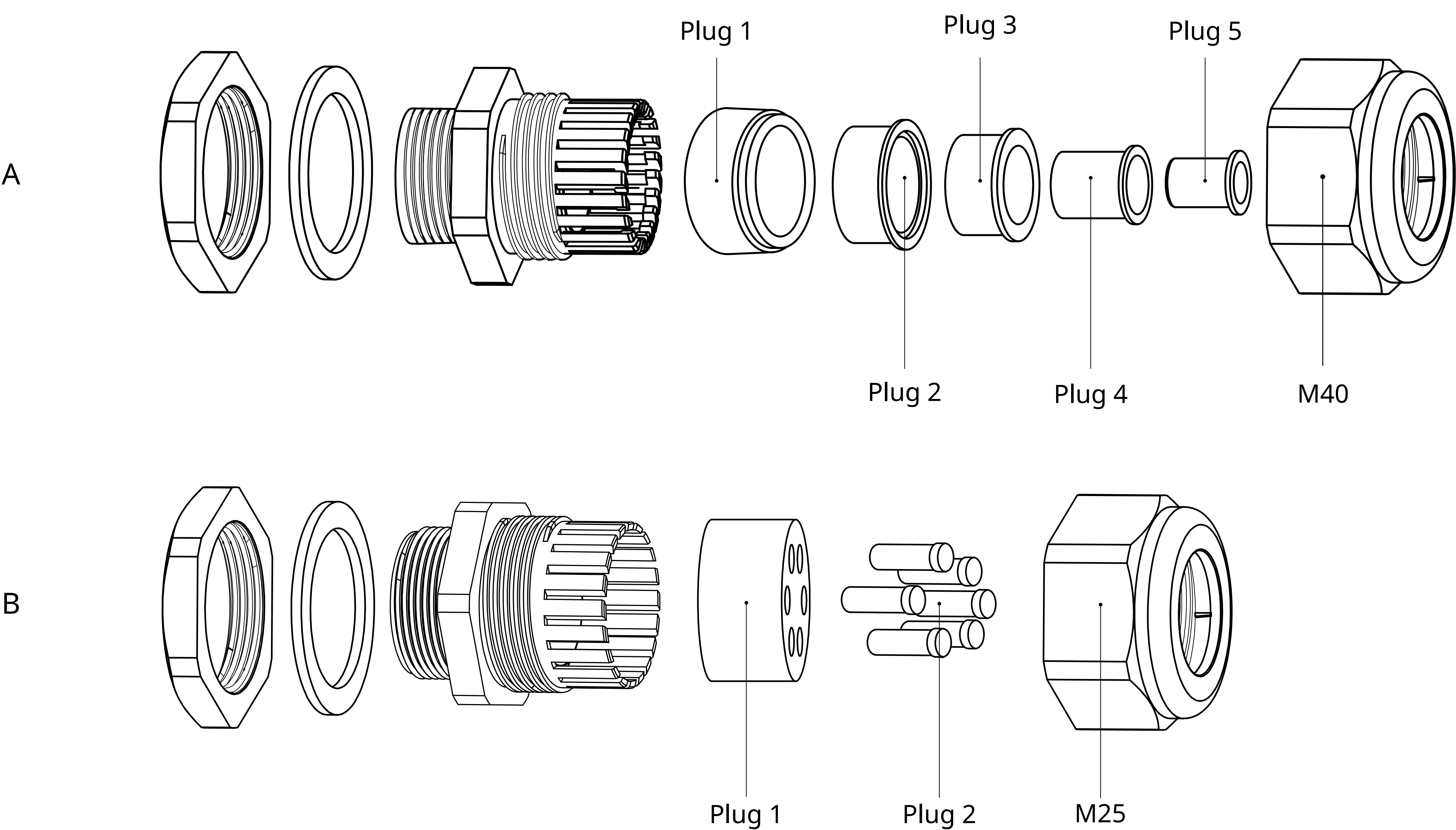
- a. Use the electrical hole cutter with a pilot drill bit to drill holes. The drilling area and recommended cable outlets can be found at the bottom of the M-Backup.

NOTE:

- Smooth the edge of the hole with a knife before tightening the nuts and wiring the cables.



- b. Mount the rain-tight fittings on the holes. Remove the plug as needed and thread the cable through the appropriate plug. The relationship between the plug and the wire diameter is shown in the table below.
- c. Tighten the lock nuts of the glands with a torque of 4–5 N·m and the sealing nuts with a torque of 7–7.5 N·m.



	Item	Recommended diameter	Wire type
A	Plug 1	/	Power cable
	Plug 1+2	3 × 25 mm ²	
	Plug 1+2+3	/	
	Plug 1+2+3+4	3 × 10 mm ²	
	Plug 1+2+3+4+5	3 × 6 mm ²	
B	Plug 1	0.25 to 0.75 mm ²	Communication cable
	Plug 1+2	Cover the unused cable holes on plug1	

NOTE:

- Recommended values are subject to local regulations. Adjust for cable diameter deviations per site conditions.

For two Combiners to one Backup, site-specific sealing is required.

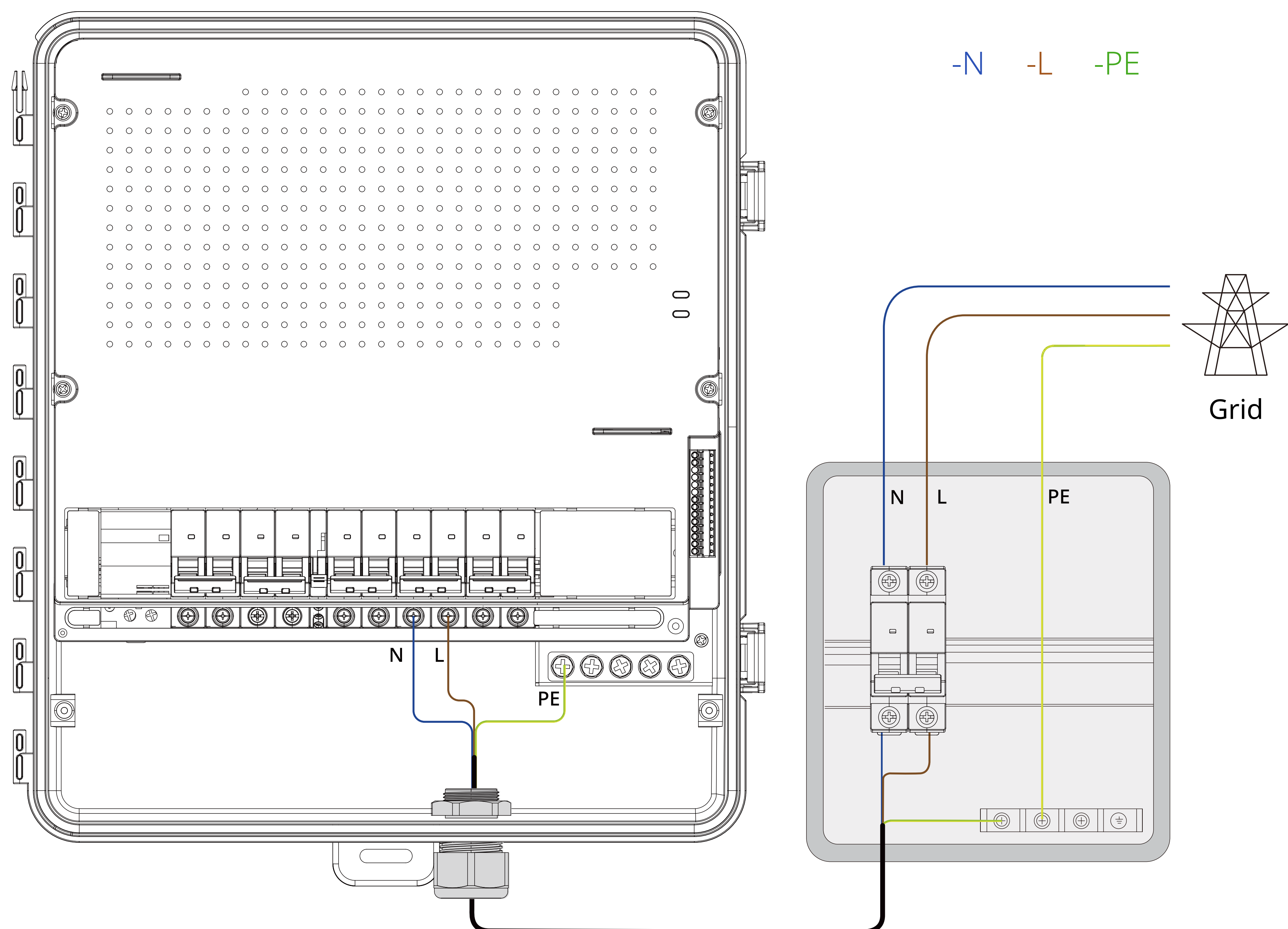
4.5 Wire to the M-Backup

4.5.1 Wire from the grid

- Disconnect the breaker from the grid.
- Bring in the cables from the grid through the grid hole.
- Connect the cables (N and L) to the grid breaker and connect the PE cable to the PE terminal.
- Tighten the screws by using a Phillips #2 screwdriver with a torque of 2–2.5 N·m.

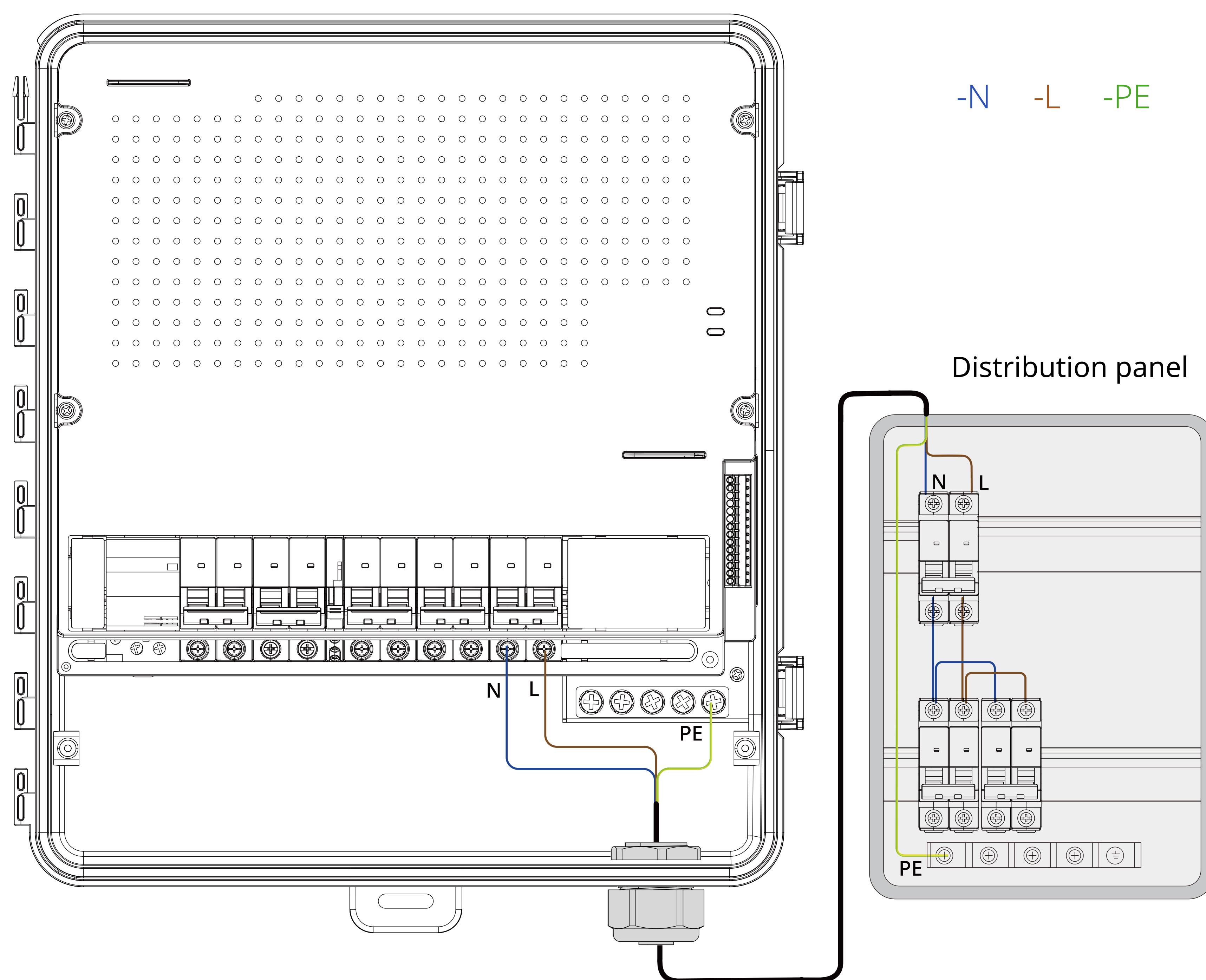
NOTE:

- Before connecting to the power grid, it is necessary to determine the power grid configuration.



4.5.2 Wire from the Backup load

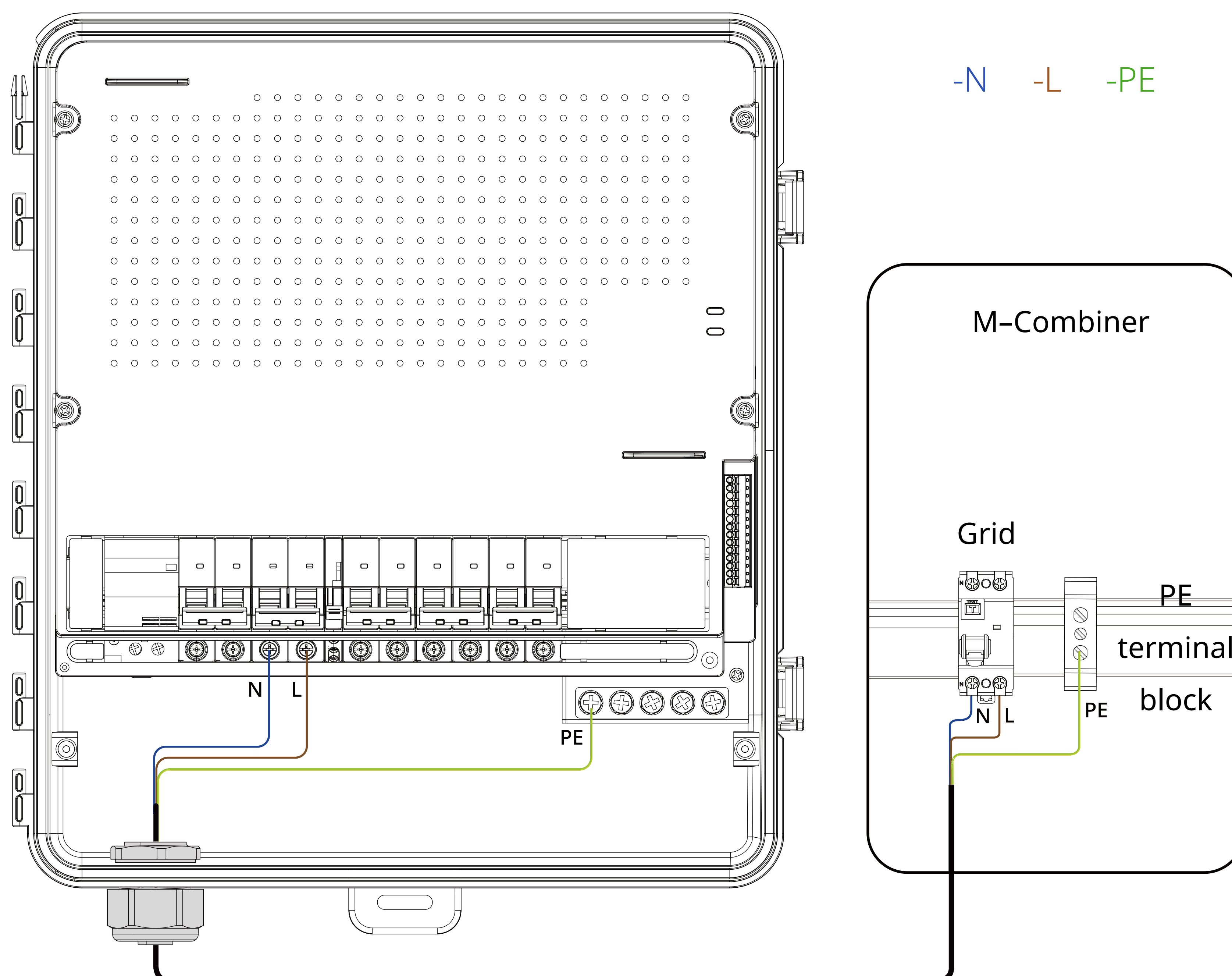
- Disconnect the main breaker in the distribution panel.
- Bring in the cables from the distribution panel through the hole.
- Connect the cables (N and L) to the distribution panel breaker.
- Connect the PE cable to the PE terminal. If the grid is with L and PEN, the PE cable is not necessary to be connected.
- Tighten the screws by using a Phillips #2 screwdriver with a torque of 2–2.5 N·m.



4.5.3 Wire from the M-Combiner / Battery

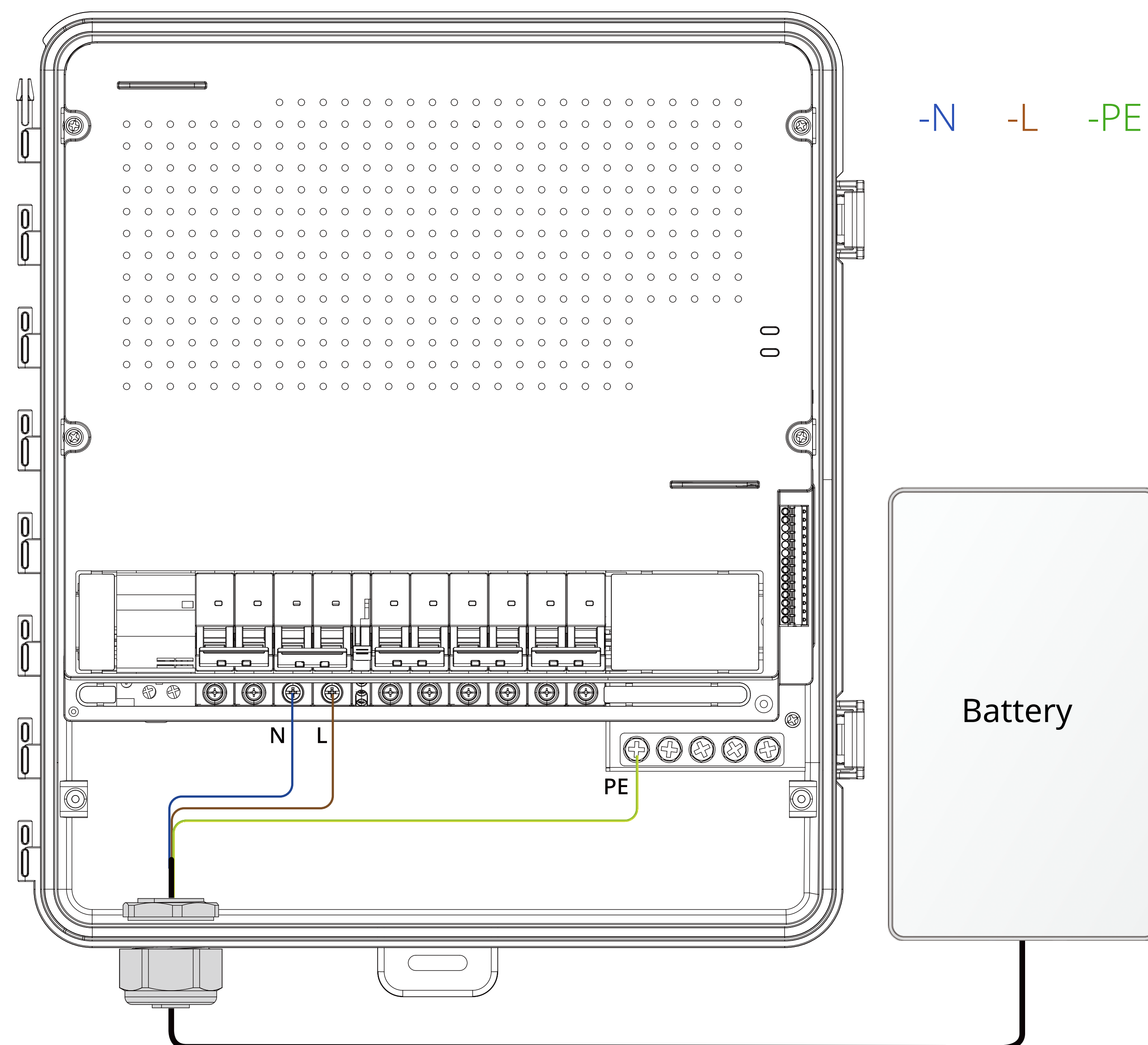
Section A. Wire from the M-Combiner

- Bring in the cables from the M-Combiner through the hole.
- Connect the cables (N and L) to the RCD inside the M-Combiner.
- Tighten the screws by using a Phillips #2 screwdriver with a torque of 2–2.5 N·m.



Section B. Wire from the Battery (not using Combiner, use ESS Kits)

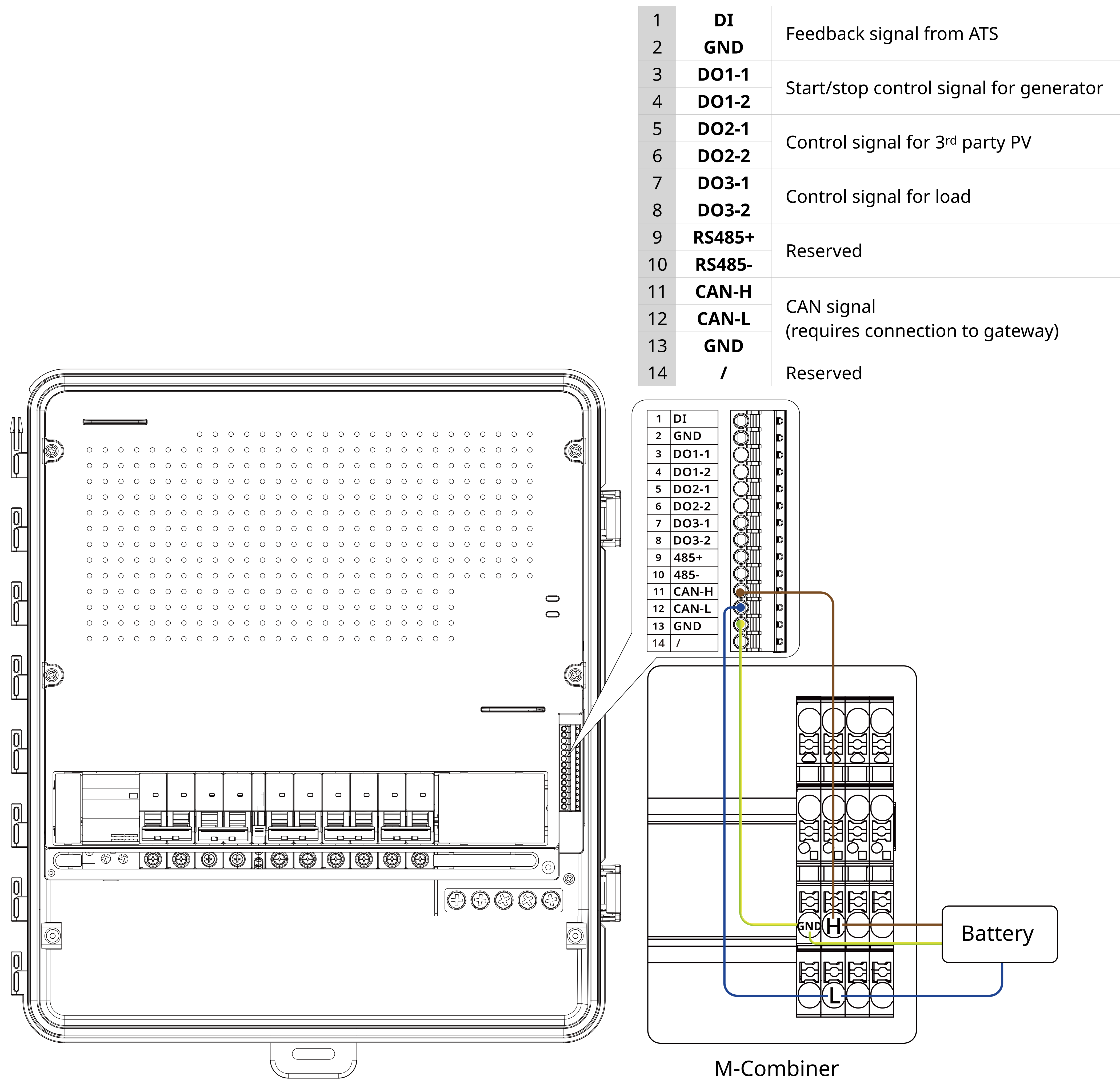
- Bring in the cables from the Battery through the hole.
- Connect the cables (N and L) to the M-Combiner / Battery breaker and connect the PE cable to the PE terminal.
- Tighten the screws by using a Phillips #2 screwdriver with a torque of 2–2.5 N·m.



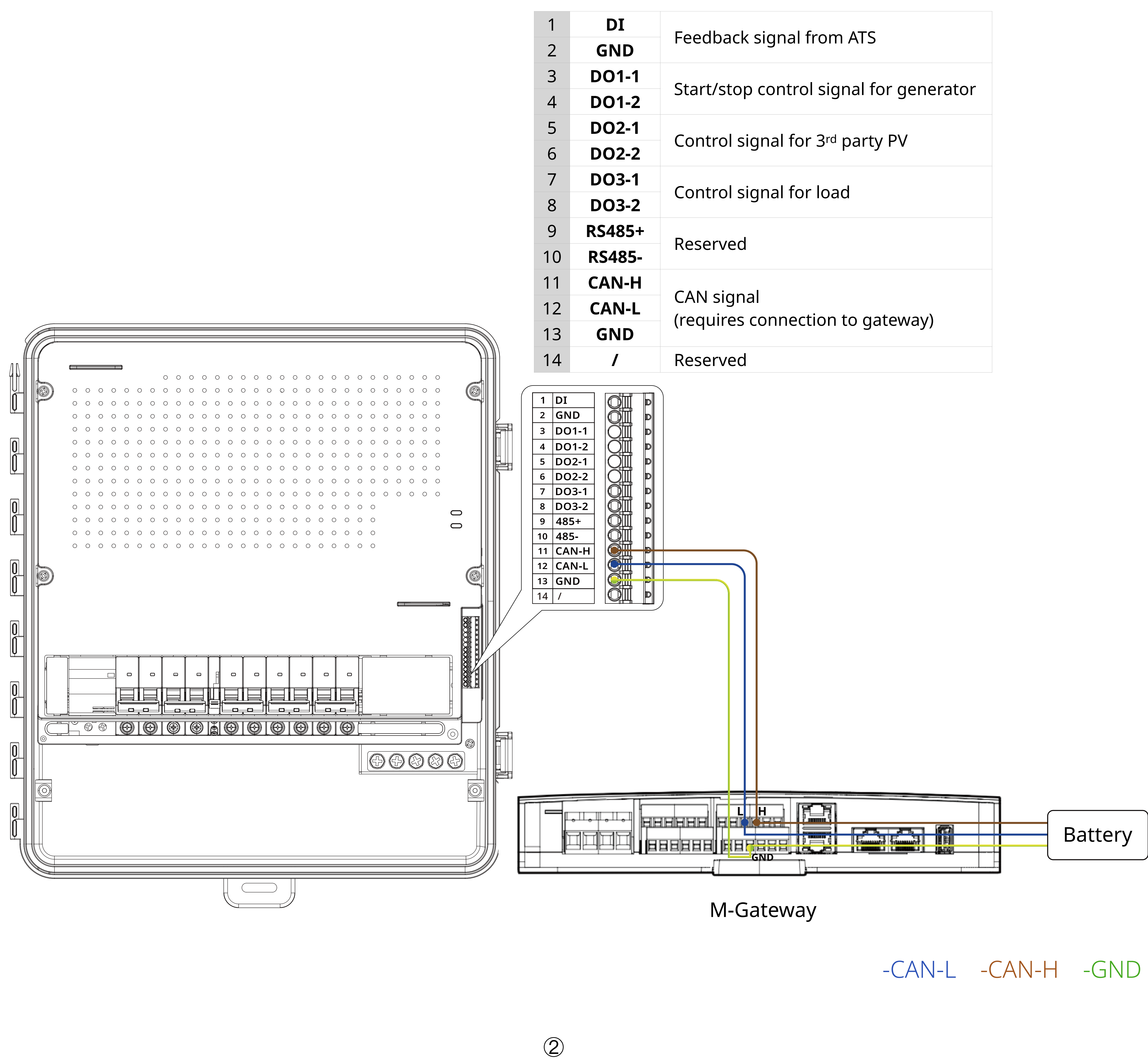
4.5.4 Wire to the COM interface

The M-Backup supports CAN, RS485, DI CTRL, and DO CTRL interfaces, etc. For both Battery and Backup CAN cables:

- a. Strip the ends of CAN-H, CAN-L, and GND wires.
- b. Crimp matching wires together using cold-press terminals (CAN-H to CAN-H, CAN-L to CAN-L, GND to GND).
- c. If using M-Combiner, connect the combined wires to the M-Combiner at the designated location (as shown in the diagram ①).

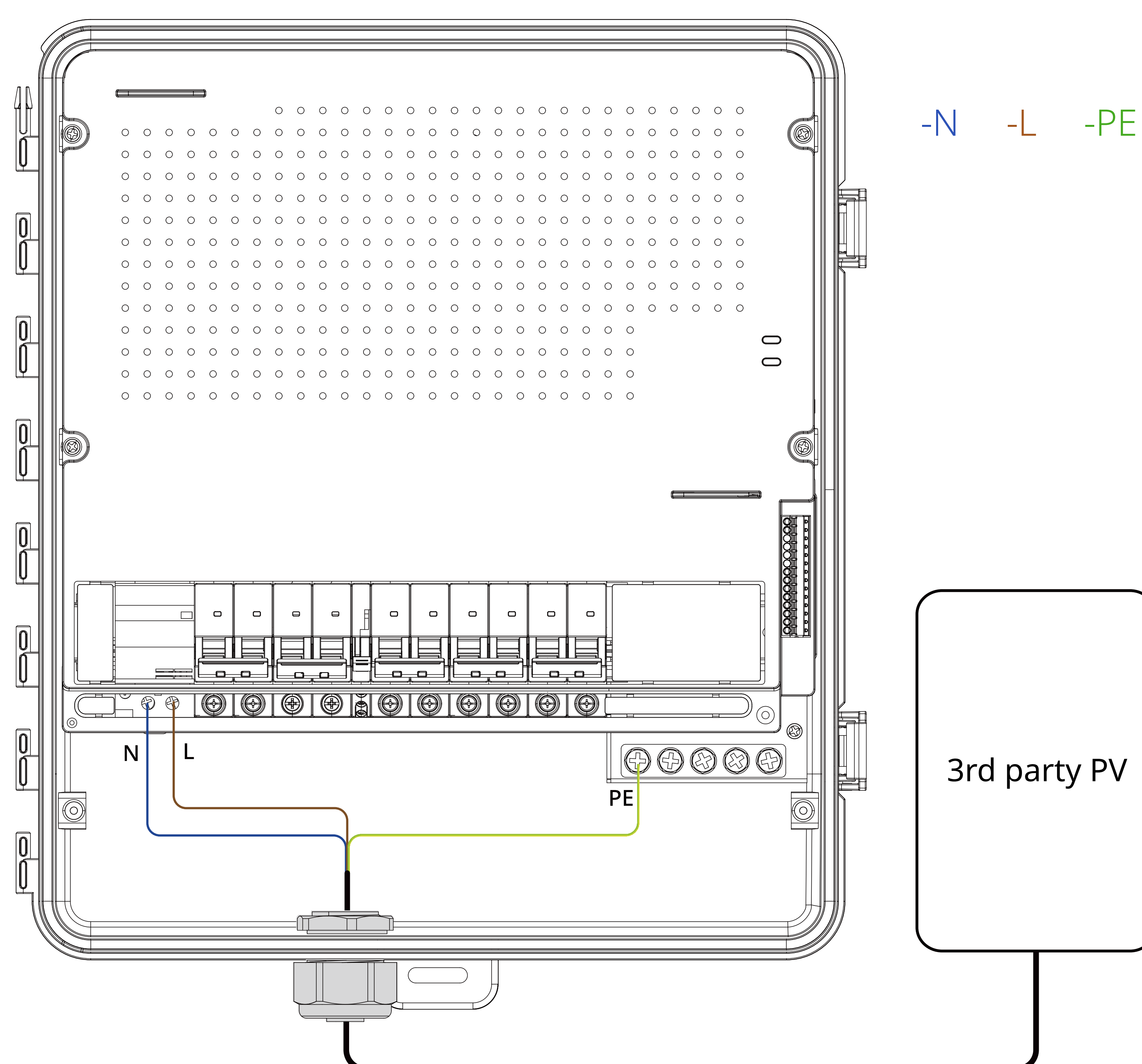


d. If using ESS Kits, connect the combined wires to the M-Gateway at the designated location (as shown in the diagram ②).



4.5.5 (Optional) Wire from the 3rd party PV

- Bring in the cables through the COM hole.
- Connect the cables (N and L) to the 3rd PV dry contact..
- Connect the PE cable to the PE terminal.
- Tighten the screws by using a Phillips #2 screwdriver with a torque of 2–2.5 N·m.



4.5.6 Lockout the bypass

- a. Secure the bypass access with a lock.

