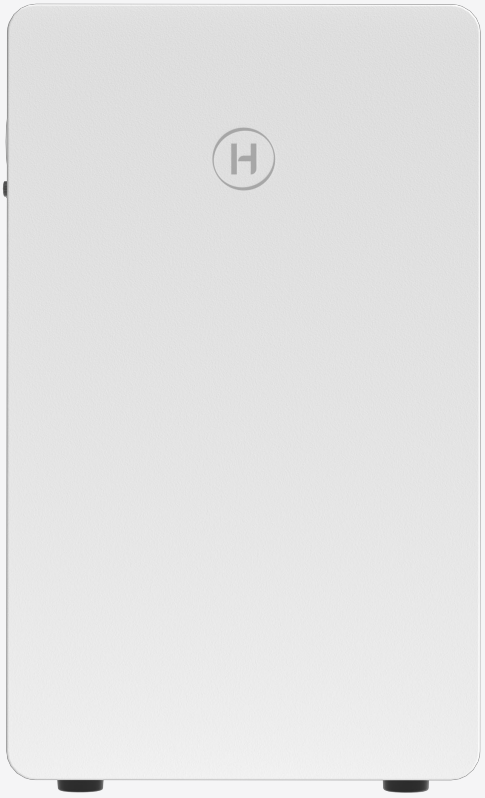
Open Energy for All

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Low Voltage Battery

USER MANUAL

LB-10D-G3

Legal Notice

Hoymiles has made every effort to ensure the accuracy and completeness of this manual. However, this manual may be changed and revised due to product enhancements or user feedback.

Hoymiles reserves the right to modify this manual without prior notice at any given time. The latest version of this manual can be found by visiting the Hoymiles official website ***www.hoymiles.com*** or scanning the QR Code below.

Warranty

Follow the installation instructions in this manual to ensure warranty compliance and reliability. The current warranty conditions can be accessed at ***www.hoymiles.com***.

Contact Information

If you have technical queries or any questions concerning our products, please contact our support through the Hoymiles service portal:

Germany
service.de@hoymiles.com

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service.es@hoymiles.com

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service.fr@hoymiles.com

Italy
service.it@hoymiles.com

Netherlands
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Contents

1 About This Manual 1
1.1 Purpose 1
1.2 Audience 1
1.3 Validity 1
2 Safety Information 2
2.1 Safety Symbols 2
2.2 Additional Symbols 2
2.3 Intended Use 3
2.4 Safety Instructions 3
2.5 EU Declaration of Conformity 4
3 Transportation and Storage 5
3.1 Transportation Requirements 5
3.2 Storage Requirements 5
4 Appearance and Dimensions 6
5 Pre-Installation 7
5.1 Unpacking 7
5.2 Required Tools and Materials 8
5.3 Selecting an Installation Site 8
5.4 Installing Lifting Handles 9
6 Mechanical Installation 10
6.1 Floor-Standing Installation 10
6.2 (Optional) Wall-mounting Installation 12
7 Electrical Connection 14
7.1 Cable Preparation 14
7.2 Single Inverter System 15
7.2.1 Single Battery System 15
7.2.2 Multi-battery System 16
7.3 Multi-inverter System 17
8 System Commissioning 18
8.1 Preparation 18
8.2 System Power-on 18
8.3 System Power-off 19
9 System Maintenance 20
9.1 Routine Maintenance 20
9.2 Troubleshooting 20
9.3 LED Indicators 22
10 Decommissioning 23
10.1 Removing the Product 23
10.2 Packing the Product 23
10.3 Disposing of the Product 23
11 Handling Precautions and Guidelines for Product 23
12 Technical Datasheet 25

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1 About This Manual

1.1 Purpose

This manual provides information on the installation, electrical connections, operation, and maintenance of the LB-10D-G3 series battery.

Please consider the following before installation:

- Carefully read this manual before operation.
- Keep this manual for reference.

1.2 Audience

This manual is intended for use by qualified persons only. Qualified persons must have the following skills:

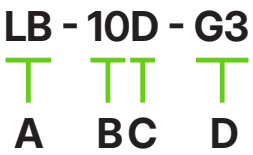
- Knowledge of how a battery works.
- Knowledge of how an inverter works.
- Training in how to deal with the dangers and risks associated with the installation, maintenance, and use of electrical devices.
- Training in the installation, commissioning, and maintenance of electrical devices.
- Knowledge of and compliance with all applicable laws, standards, and directives.

1.3 Validity

This manual is valid for LB-10D-G3.

NOTE

Model identifier:



[A]: Series Name (Low Voltage Battery)
[B]: Total Energy (10 kWh)
[C]: Battery Type (Detached Battery)
[D]: Generation (The Third Generation)

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2 Safety Information

The LB-10D-G3 series battery is designed and tested according to international safety requirements. However, certain safety precautions must be taken while installing, operating, and maintaining the battery. Please carefully read all safety instructions before installation, and observe all these safety instructions.

2.1 Safety Symbols

Safety symbols are used in this manual as follows:

Symbol	Description
DANGER	This symbol indicates potential risks that, if not avoided, may lead to death or serious physical injury.
WARNING	This symbol indicates potential risks that, if not avoided, may lead to personal injury or device damage.
CAUTION	This symbol indicates potential risks that, if not avoided, may lead to device malfunctions or financial losses.
NOTICE	This symbol indicates potential risks that, if not avoided, may lead to minor injury or damage to the equipment.
NOTE	This symbol indicates an important step or tip that leads to the best results but is not safety or damage-related.

2.2 Additional Symbols

The product label contains the following symbols with their meanings described below:

Symbol	Usage
	**Electric hazard** This symbol indicates that there is a danger of electric shock. Failure to pay attention to the procedures, practices, or improper implementation may cause injuries or death.
	**Warning** This symbol indicates that there is a hazard that could damage the product.
	The product should be stored and installed away from explosive materials.
	Playing around the product is not allowed.
	The product must be stored and installed far from flammable materials.
	Please wear protective goggles when installing, operating, and maintaining the product.
	**WEEE Designation.** Do not dispose of the product together with household waste. Dispose of the product in accordance with local disposal regulations for electronic waste.

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	**CE mark.** The product complies with the requirements of the applicable EU directives.
	**The battery is recyclable**. The battery can be recycled by a professional recycling organization. Please refer to the relevant local regulations.
	**Observe the documentation.** Read and understand all documentation supplied with the product.
	This side up! This package must always be transported, handled, and stored in such a way that the arrows always point upwards.
	Keep dry! The package/product must be protected from excessive humidity and must be stored under cover.
	No more than six (6) identical packages are to be stacked on the top of each other.
	No Stepping.

2.3 Intended Use

The LB-10D-G3 series is a BESS designed for residential applications.

- It is a low-voltage Li-ion BESS.
- It can be installed indoors. For details, refer to ***Environmental Requirements***.
- It must only be used as stationary equipment.
- Alterations to the product are not allowed unless authorized in writing by the supplier.
- Unauthorized alterations will void the guarantee and warranty claims. Hoymiles will not be liable for any damage caused by such unauthorized alterations.
- It is not suitable for supplying power to life-sustaining medical devices.
- Please ensure that there will be no personal injury due to the power outage of the battery system.
- It can only be used in countries where it is approved by battery suppliers.
- It should be used in accordance with the information provided in this document and local applicable standards and directives. Any other application may cause personal injury or property damage.
- The label must be permanently attached to the product.
- The safety instructions in this document are only supplements to local laws and regulations. Please follow local laws and regulations during installation, operation, and maintenance.

2.4 Safety Instructions

To prevent personal injury and property damage and to ensure the long-term operation of the product, read this section carefully and observe all safety information at all times. Failure to observe the prescribed instructions may potentially void the manufacturer's warranty. If in doubt, please contact Hoymiles.

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⚠ DANGER

Danger to life due to electric shock where surge protection is not used!

If there is no surge protection, a voltage surge can be conducted into the building and to other connected devices in the same system through power cables, network cables, or other cables. Touching live parts and cables may result in death or lethal injury due to electric shock.

- Ensure all devices in the same system and the inverter are integrated with an existing surge protection system or device.
- Install the surge protection device in accordance with local laws and regulations.

⚠ WARNING

Danger to life due to overvoltage!

Overvoltage can damage a measurement device and result in voltage being present in the enclosure of the measurement device. Touching the live enclosure of the measuring device will result in death or lethal injuries due to electric shock.

- Only use measurement devices with a voltage range higher than the system battery voltage.
- Do not touch hot surfaces before they cool down.

Risk of injury due to the weight of the product!

- If the product is lifted incorrectly or dropped while being transported or mounted, it may result in injury.
- Lift and transport the product carefully.
- Wear suitable personal protective equipment, and comply with local regulations during installation, operation, and maintenance.

Fire hazard!

- If the fire is not from the battery or does not spread to the battery, please use FM-200 or a carbon dioxide fire extinguisher to put out the fire.
- If the battery pack catches fire, do not attempt to put out the fire and evacuate immediately. Keep damaged batteries isolated and call the local fire department. Immediately seek medical in case of breathing in toxic fumes.

Keep away from water!

- Keep the battery packs away from water. If any part of the battery system is submerged, there is a risk of electric shock and internal short-circuit.
- Do not reuse the battery if it has been submerged in water.

NOTICE

Damage to the battery system due to electrostatic discharge!

Internal components of the battery system can be irreparably damaged by electrostatic discharge.

- Ground yourself before touching any component.

2.5 EU Declaration of Conformity

Hoymiles Power Electronics Inc. hereby declares that the battery described in this document is in compliance with the basic requirements and other relevant provisions of the following directives.

- Electromagnetic Compatibility Directive 2014/30/EU (EMC)
- Restriction of the use of certain hazardous substances Directive 2011/65/EU and its amendment directives (EU) 2015/863 (RoHS)
- EU Battery Regulation (EU) 2023/1542.

More detailed information can be found at ***https://www.hoymiles.com***.

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3 Transportation and Storage

3.1 Transportation Requirements

Category	Description
Compliance	The battery is certified to UN 38.3. It is classified as Class 9 dangerous goods and must be transported in accordance with applicable dangerous goods regulations.
Method and Condition	• Transport batteries separately. • Before and during transport, ensure that the packaging, labels, and markings are intact and compliant. • Keep the battery upright during transport. Do not tilt or invert the package. • Handle the battery carefully to prevent short circuit, mechanical damage, fire, or explosion. • Do not lift or move the battery by its terminals or cables. • Check the product weight before handling and use appropriate lifting equipment.
Personnel Safety	• Wear personal protective equipment when handling the batteries. • Only trained personnel may handle, lift, or transport the battery.

3.2 Storage Requirements

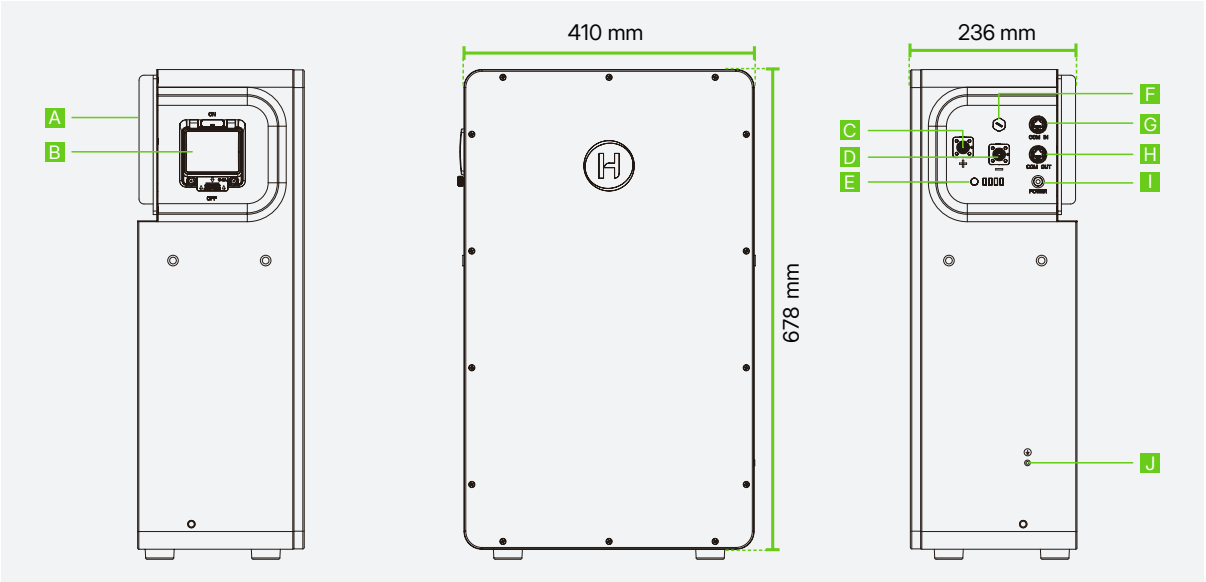
If the battery is not installed immediately after delivery, store it as described below.

Category	Description
Environment	• Store the battery in the original package, and do not unpack the battery. • Store the battery at 15 °C to 35 °C and 10% to 95% relative humidity, non-condensing. • Keep the package upright. Do not tilt or invert it. • Do not place any objects on the top of the battery pack. • The battery should be stored in a cool and clean place where it can be protected from direct sunlight and bad weather such as rain, snow, or lightning. • Keep the package away from flammable, explosive, and corrosive materials.
Maintenance	• If the battery is stored for three months or longer, it must be fully inspected and tested by authorized personnel before it can be put into operation. • During long-term storage, professionals should regularly check for loose cables, inspect for visible damage, and clean the exterior surface. If any defects are found, please contact the dealer in time. • Perform battery maintenance at least once every 6 months.
Charging Strategy	• Before storage, charge the battery to 100%, then discharge it to 50%, and power it off. • Recharge the battery every 6 months during storage. • When the device is unused, maintain the battery SOC between 45% and 50% during storage and disconnect the battery output to prevent deep discharge. • If the battery is fully discharged, recharge it within the following time limits: - At 45 °C to 50 °C: recharge within 7 days. - At 35 °C to 45 °C: recharge within 15 days. - Below 35 °C: recharge within 30 days.

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4 Appearance and Dimensions



No.	Description	No.	Description
A	Radiator	F	Relief Valve
B	DC Circuit Breaker	G	COM IN
C	Positive Terminal	H	COM OUT
D	Negative Terminal	I	Power Button
E	LED Indicator  Status SOC	J	Grounding Terminal

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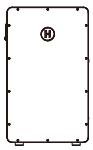
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5 Pre-Installation

5.1 Unpacking

Unpack the package and carefully take out the product and other accessories. Check that the deliverables are complete and intact after unpacking the battery. Please contact your supplier if the components are missing or damaged upon receipt of the battery.

Standard — For Floor-standing Installation


Battery*1


L-Shape Bracket*2

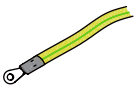

Levelling Feet*4


RJ45 Connector*2


Power Cable*2
1.5 m, 4 AWG

*


Communication Cable*2


Ground Cable*1
1 m, 6 mm²/10 AWG

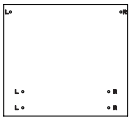

M8 Expansion Screw
M8*80*2

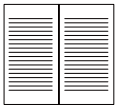

M8 Pan Head Screw
M8*16*2

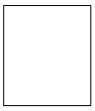

M5 Pan Head Screw
M5*14*4


M4 Pan Head Screw
M4*10*1


Lifting Handle*4


Positioning Board*1


Installation Guide*1


Certificate Card*1

Optional — For Wall-mounting Installation


Mounting Bracket*2


M8 Expansion Screw
M8*80*4


M8 Pan Head Screw
M8*16*2

NOTE

Two communication cables are available in different lengths. The 1 m cable is used for battery parallel connections. The 1.5 m cable is used to connect the battery to the inverter.

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5.2 Required Tools and Materials

The following tools are recommended during installation, and other auxiliary tools can also be used if necessary.

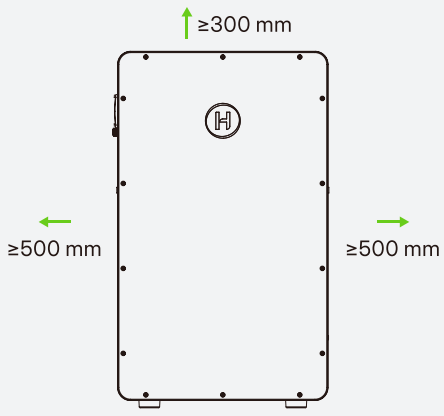


5.3 Selecting an Installation Site

Environmental Requirements

Category	Requirement
Recommended storage temperature	15 °C to 35 °C
Relative humidity	10% to 95% (non-condensing)
Altitude	≤ 2000 m
Installation Surface	Solid surface such as concrete or masonry.
Ventilation	Good ventilation and heat dissipation are required.
Clearance	Keep away from doors, windows, and other batteries.
Hazards	Keep away from heat sources, corrosive chemicals, highly flammable materials or gases, and conductive (metal) dust.
Others	Inaccessible to children.

Space Requirements



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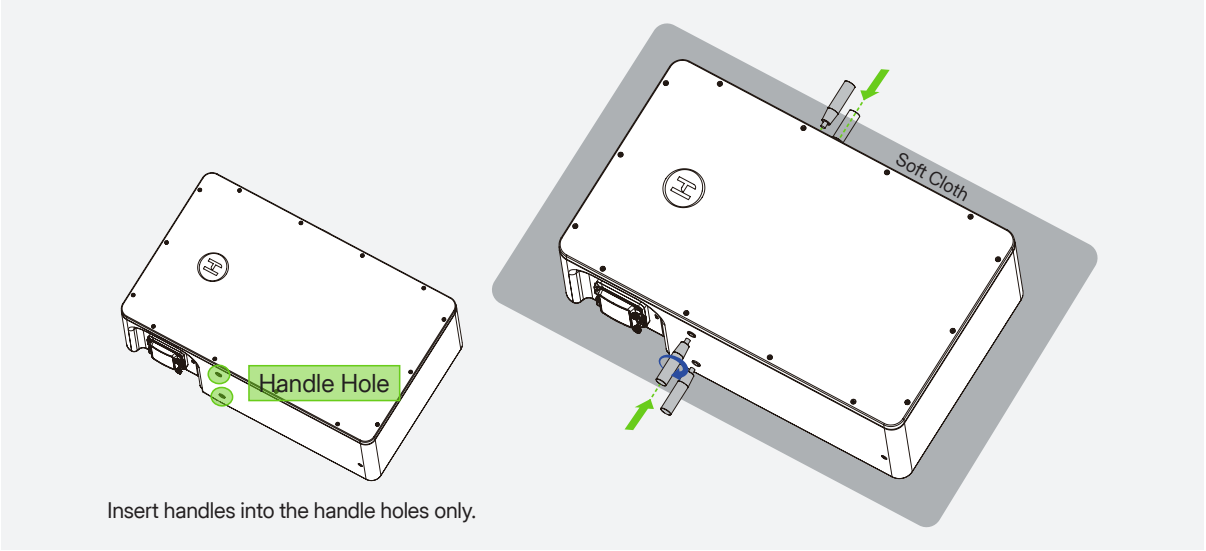
5.4 Installing Lifting Handles

⚠ WARNING

The battery is heavy. Use lifting handles and at least two people to prevent injury!

Step 1: Install two lifting handles on the left side and two lifting handles on the right side of the battery.

Step 2: Ensure all lifting handles are securely fastened before lifting.



Insert handles into the handle holes only.

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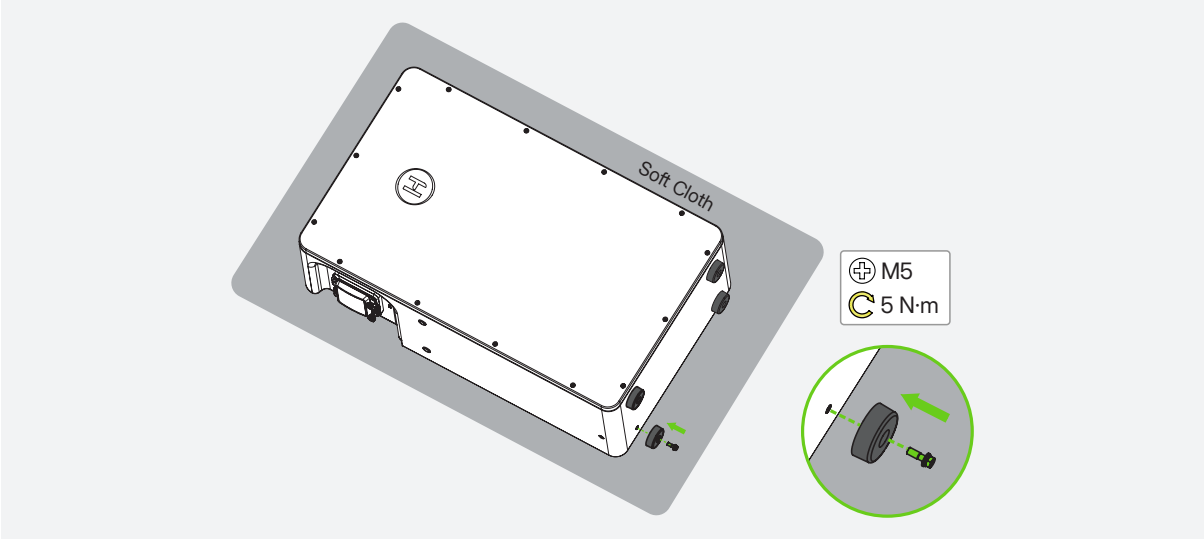
6 Mechanical Installation

6.1 Floor-Standing Installation

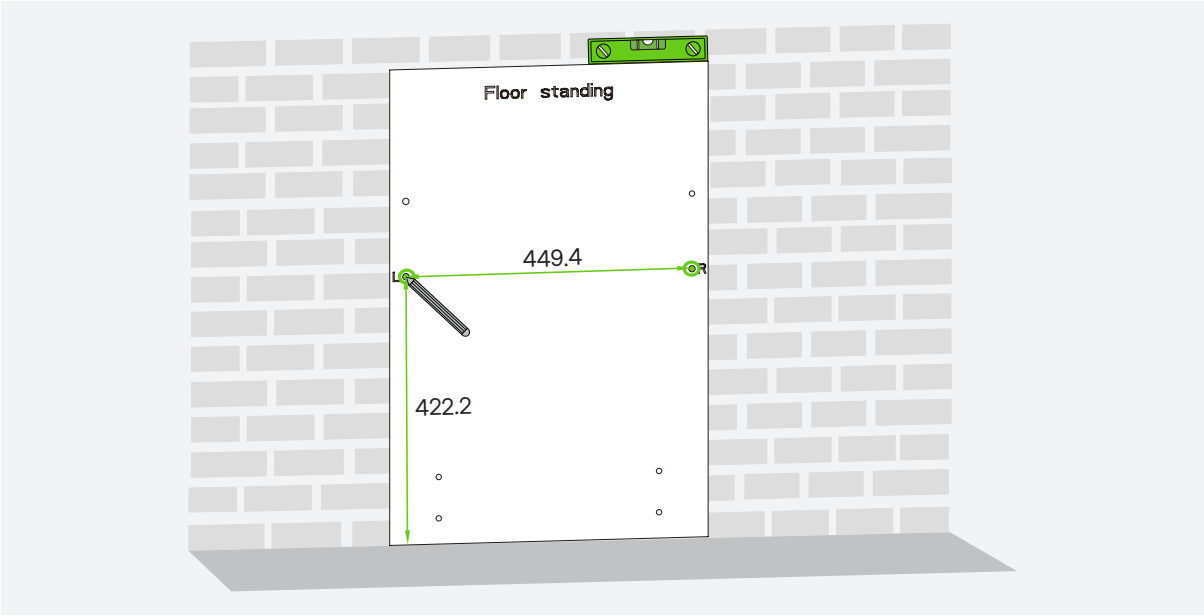
⚠ WARNING

Use a detector to make sure there are no electrical cables or water pipes behind the drilling area.

Step 1: Install the feet into the exposed holes and tighten them with M5 screws.



Step 2: Place the Positioning Board against the wall and mark the drilling positions.



Step 3: Drill holes for the L-shaped brackets.

a. Drill two holes, each 12 mm in diameter and 65 mm deep.

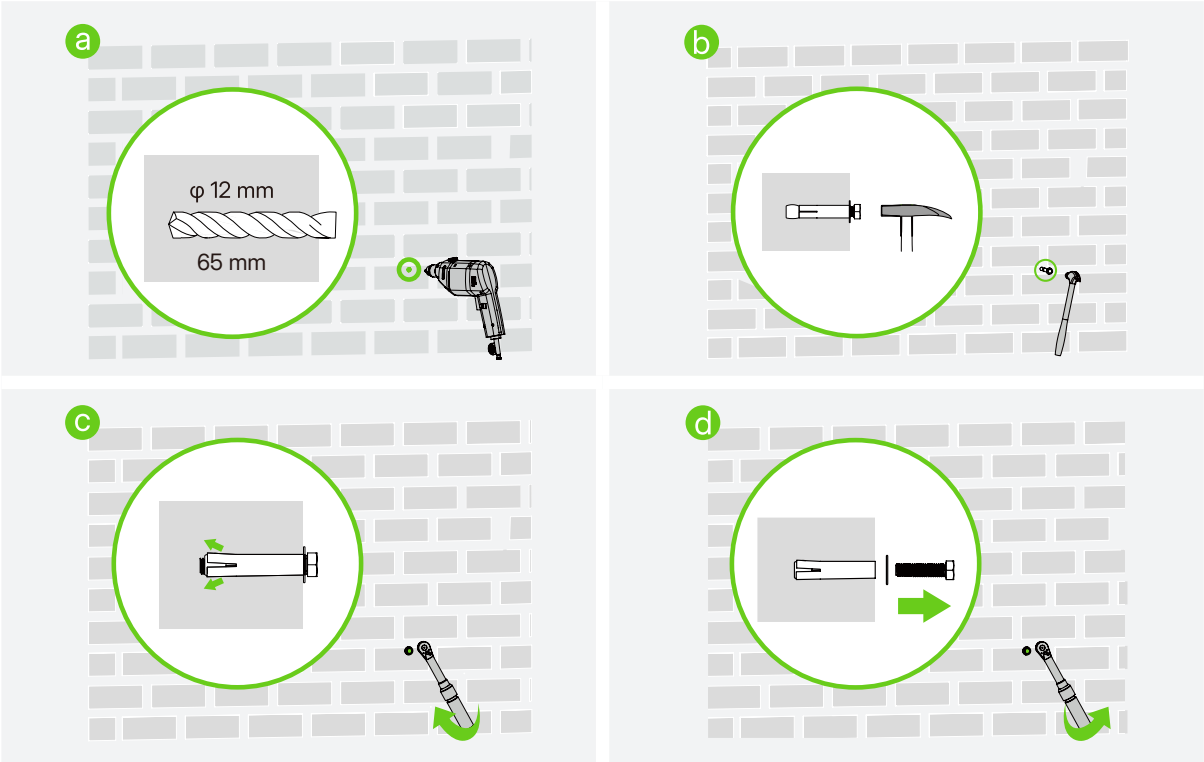
b. Hammer the expansion bolts into the holes until the washers are flush with the surface.

c. Fasten each bolt clockwise until the sleeve expands and grips the wall firmly.

d. After the sleeve expands, unscrew and remove the washer, bolt, and nut.

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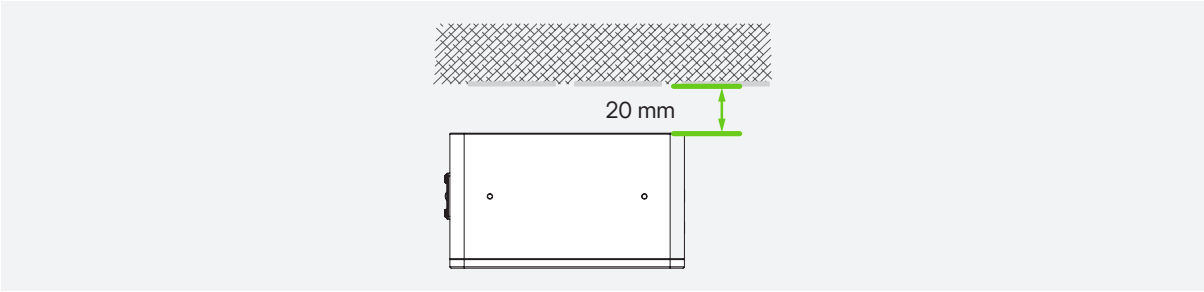
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Step 4: Position the battery.

a. Hold the lifting handles and place the battery on level ground (0°–3°).

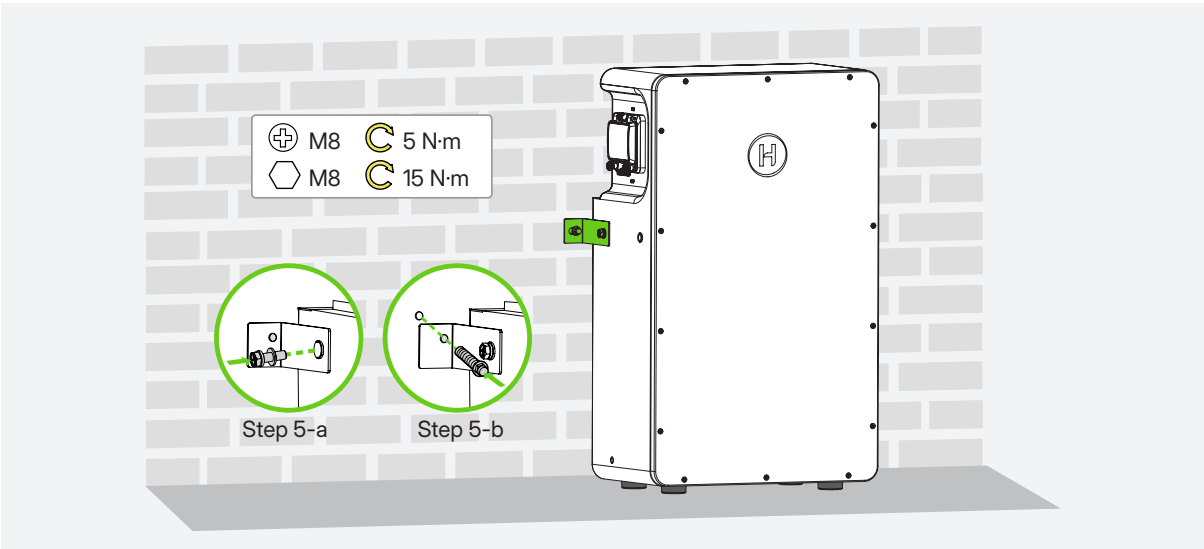
b. Make sure the battery is parallel to the wall and 20 mm away from the wall.



Step 5: Secure the battery.

a. Install the two L-shaped brackets onto the battery and secure them with M8 screws.

b. Use expansion bolts to secure the brackets to the wall.



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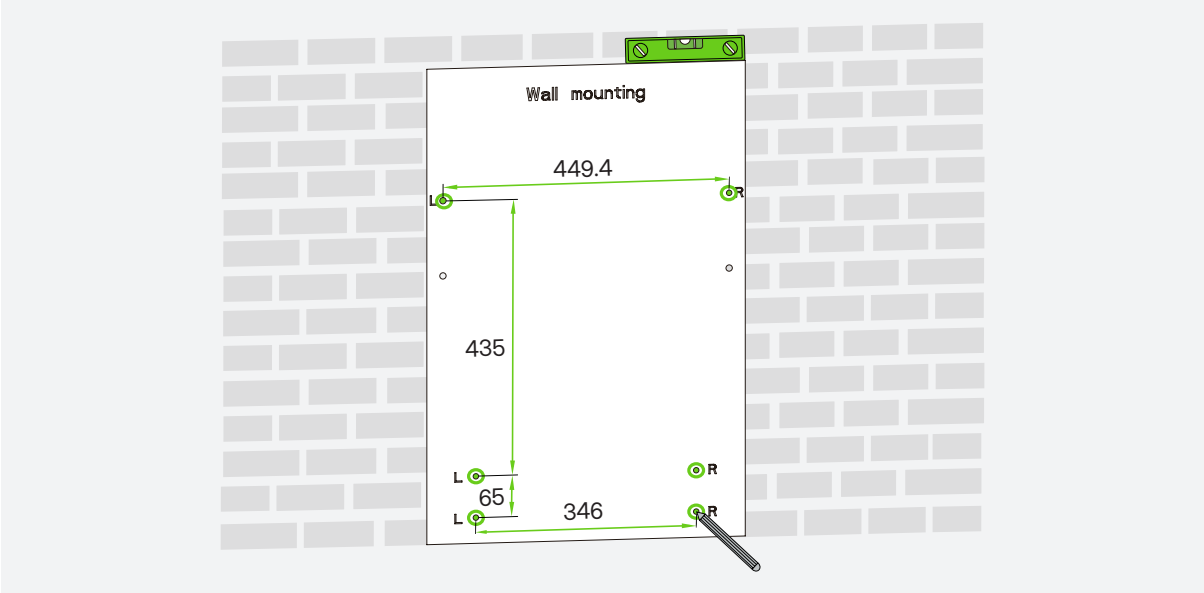
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6.2 (Optional) Wall-mounting Installation

⚠ WARNING

- Use a detector to make sure there are no electrical cables or water pipes behind the drilling area.
- Install the product only on a load-bearing reinforced concrete wall.

Step 1: Place the Positioning Board against the wall and mark the drilling positions.



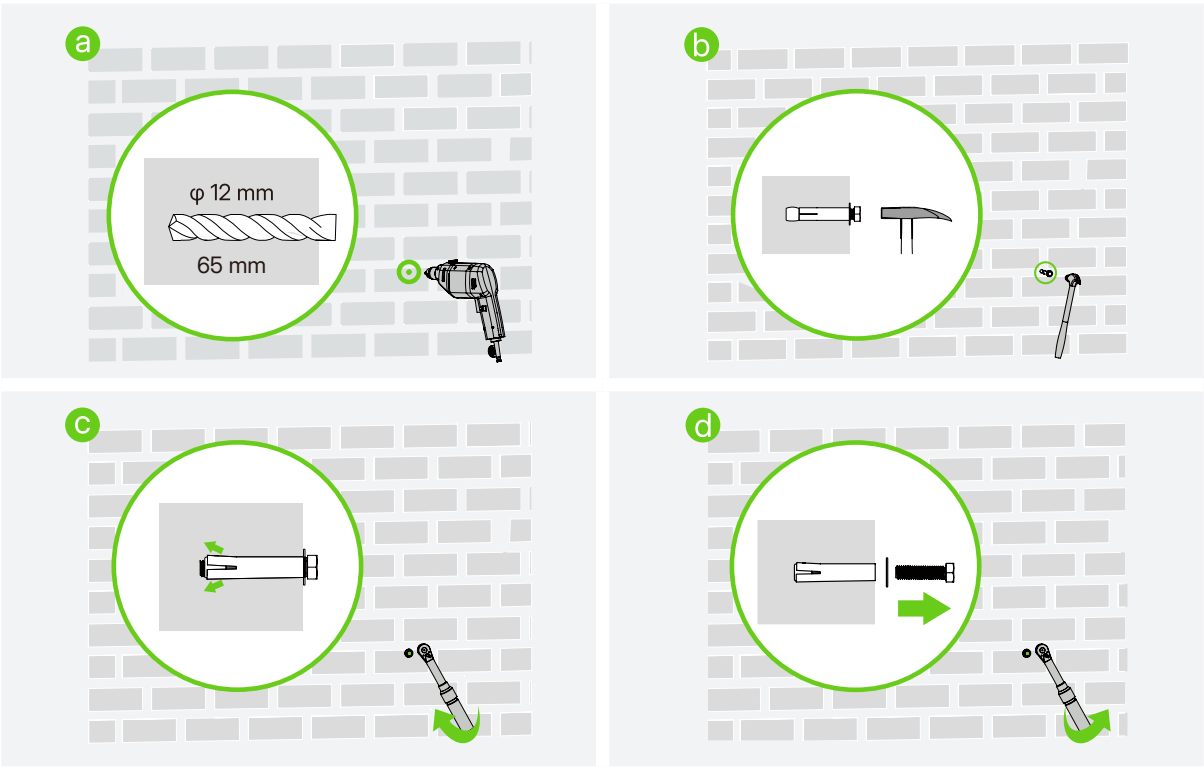
Step 2: **Drill mounting holes for the brackets.**

a. Drill six holes, each 12 mm in diameter and 65 mm deep.

b. Hammer the expansion bolts into the holes until the washers are flush with the surface.

c. Fasten each bolt clockwise until the sleeve expands and grips the wall firmly.

d. After the sleeve expands, unscrew and remove the washer, bolt, and nut.



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Step 3: **Attach the mounting brackets.**

a. Align the two mounting brackets with the installed wall sleeves.

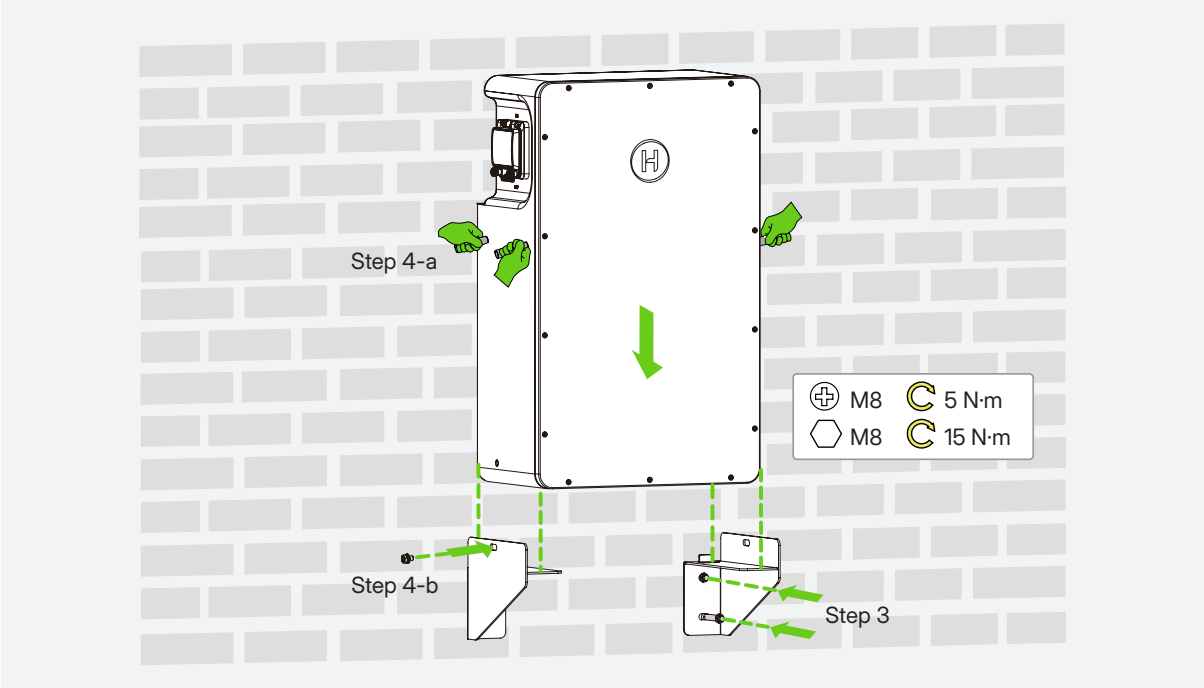
b. Place the washers and nuts onto the expansion bolts, then insert the bolts through the mounting brackets and into the sleeves.

c. Tighten the nuts to fasten the mounting brackets.

Step 4: Mount the battery.

a. Hold the lifting handles and lift the battery onto the mounting brackets.

b. Secure the battery to the mounting brackets using two M8 screws.



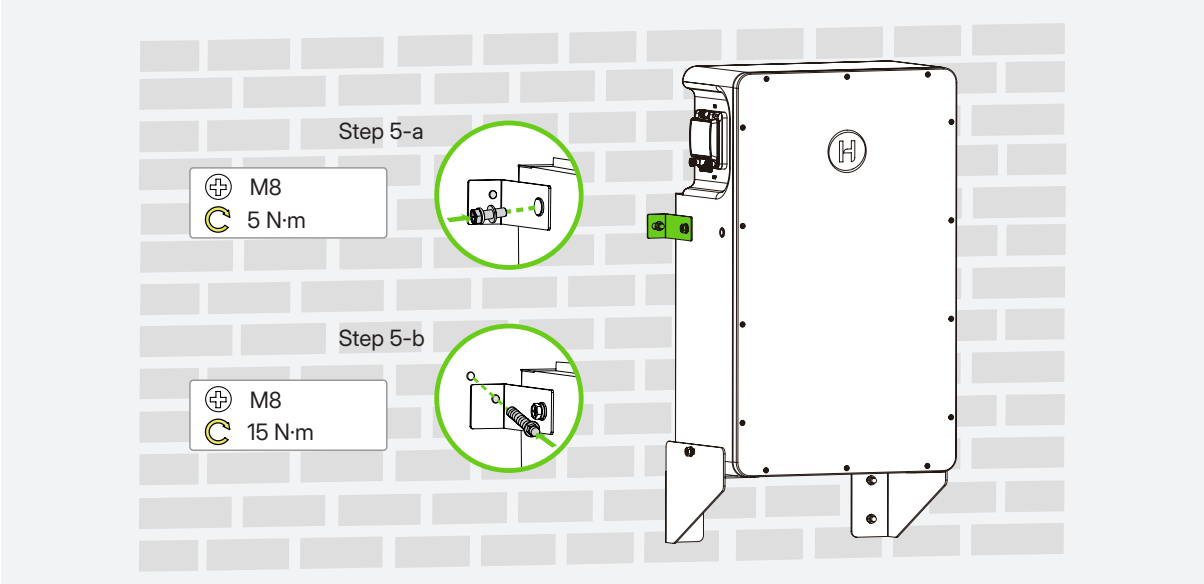
Step 5: Secure the battery to the wall.

a. Install the two L-shaped brackets onto the battery and secure them using M8 screws.

NOTICE

Make sure the bracket mounting holes are fully aligned with the drilled holes in the wall.

b. Use expansion bolts to secure the L-shaped brackets firmly to the wall.



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7 Electrical Connection

NOTICE

- Before making any electrical connections, ensure that all circuit breakers are turned off and all power supplies are disconnected.
- The maximum charging or discharging current of a single battery is 100 A.
- The LB-10D-G3 series supports up to 16 batteries connected in parallel.
- When two or more batteries are connected in parallel, they must be connected through a busbar. Use a copper busbar that meets the specifications listed below. Always comply with local laws and regulations.

Number of Batteries	Rated Current (A)	Width (mm)	Thickness (mm)
2	200	19	3
3	300	23	5
4	400	30	5
5	500	38	5
6	600	47	5
7	700	56	5
8	800	65	5
9	900	80	5
10	1000	85	5
11	1100	60	10
12	1200	70	10
13	1300	80	10
14	1400	90	10
15	1500	95	10
16	1600	100	10

7.1 Cable Preparation

The system requires ground cable, power cable, and communication cable for electrical connection. These cables are supplied with the product.

If you want to use the cable prepared by yourself, you can choose the cable size as follows:

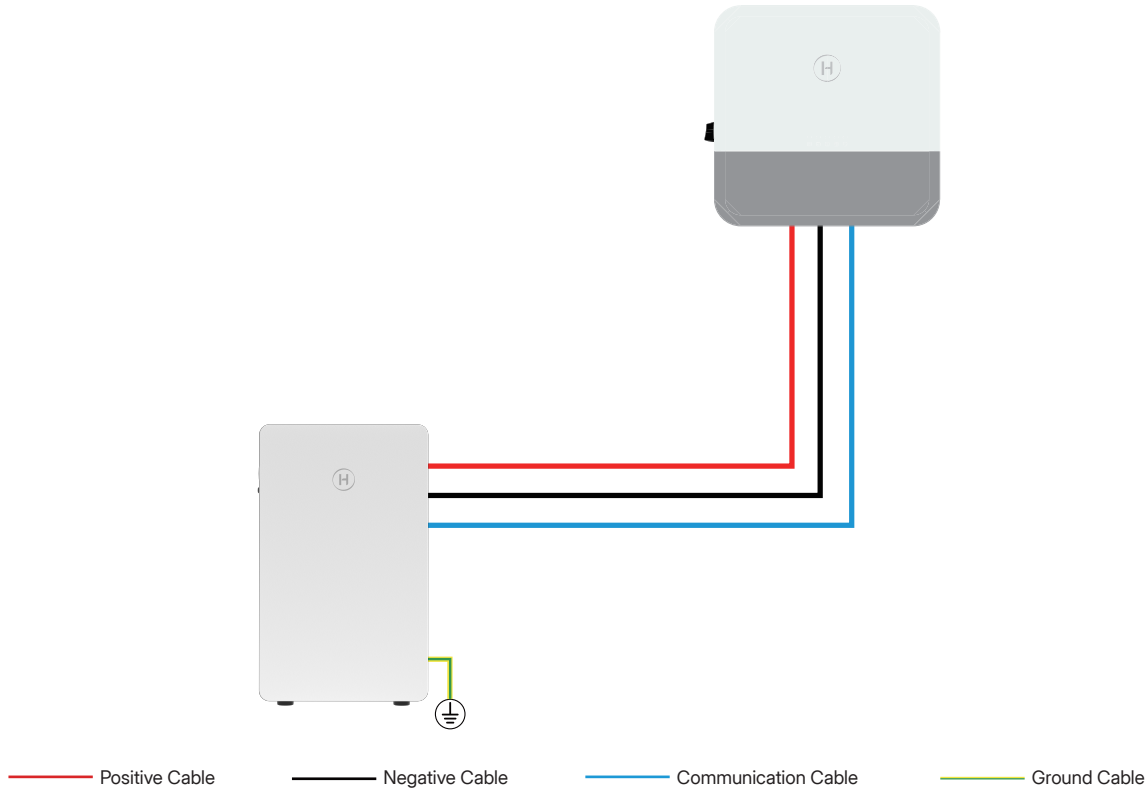
<table>
<tr><th>Cable</th><th>Size</th></tr>
<tr><td>Ground cable</td><td>6 mm² / 10 AWG</td></tr>
<tr><td>Power cable</td><td>4 AWG</td></tr>
<tr><td>Communication cable</td><td>Standard Ethernet cable, the PIN of the cable end connected to the inverter should only reserve 4 (CAN1H) and 5 (CAN1L).
<table>
<tr><th rowspan="2">Terminal</th><th rowspan="2">PIN</th><th colspan="8">Definition</th></tr>
<tr><th>1</th><th>2</th><th>3</th><th>4</th><th>5</th><th>6</th><th>7</th><th>8</th></tr>
<tr><td>COM (IN)</td><td>
</td><td>485-1A</td><td>485-1B</td><td>485-2A</td><td>CAN1H</td><td>CAN1L</td><td>485-2B</td><td>DI</td><td>GND1</td></tr>
<tr><td>COM (OUT)</td><td>
</td><td>485-1A</td><td>485-1B</td><td>485-2A</td><td>NC</td><td>NC</td><td>485-2B</td><td>DO</td><td>GND1</td></tr>
</table></td></tr>
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7.2 Single Inverter System

7.2.1 Single Battery System



Procedure

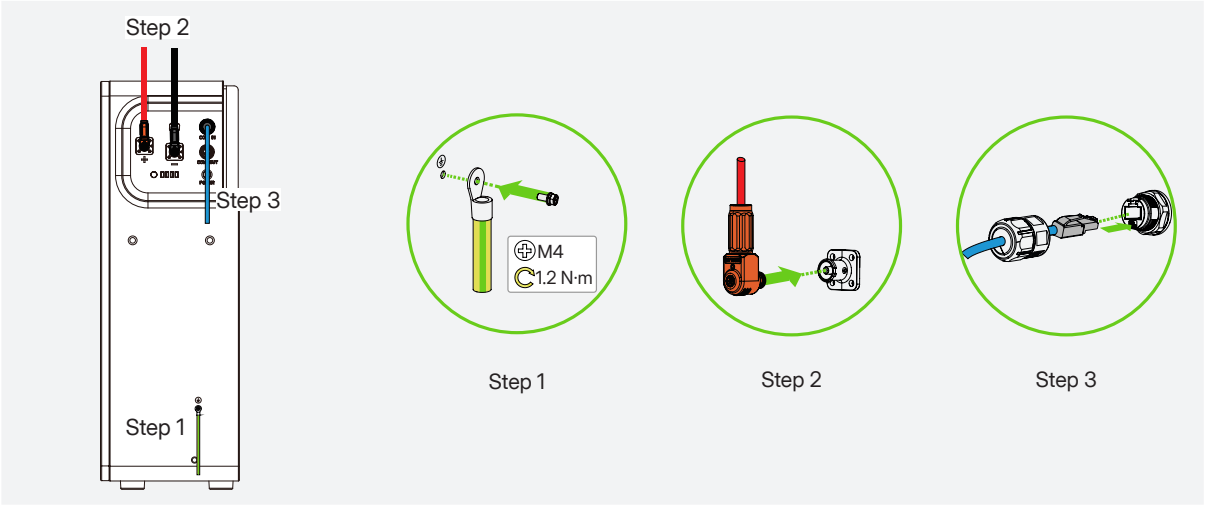
Step 1: Connect the ground cable.

Step 2: Connect one end of the power cables to the battery terminals and the other end to the inverter.

Step 3: Connect the communication cable.

a. Take the 1.5 m communication cable.

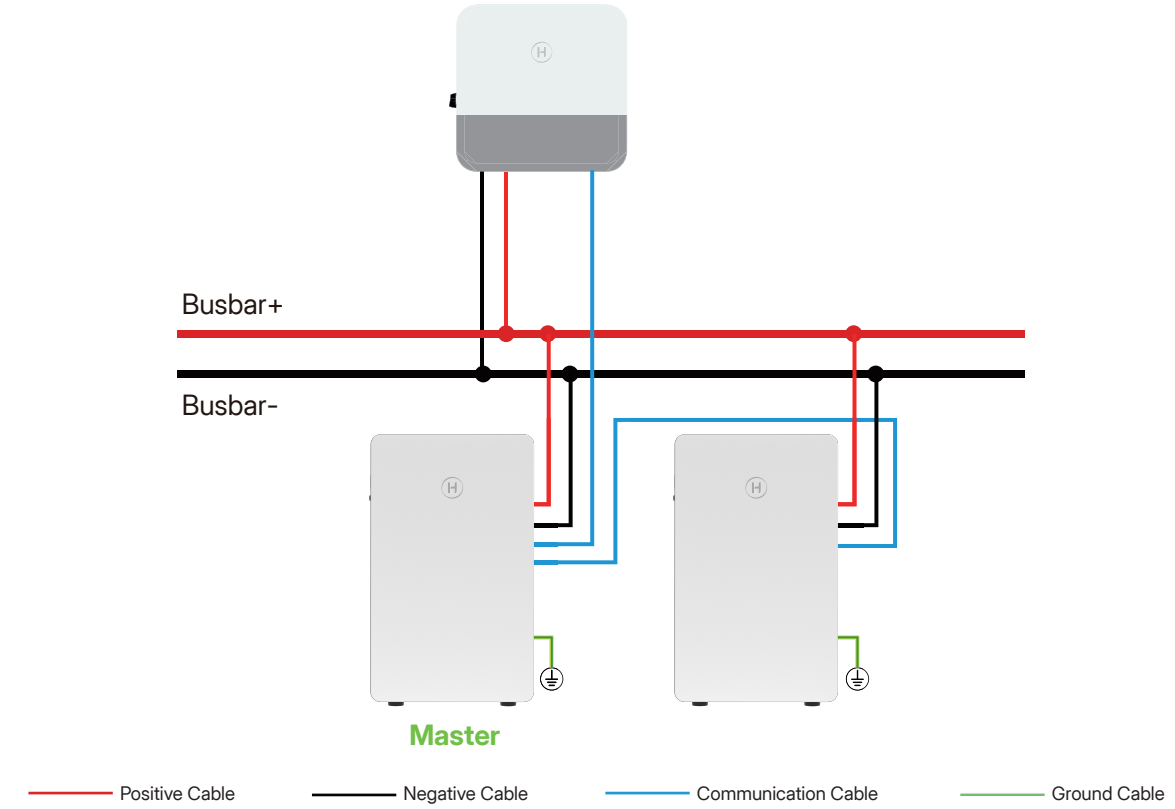
b. Plug one end marked INV to the inverter communication port and the other end marked BAT to the battery COM IN port.



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7.2.2 Multi-battery System



Procedure

Step 1: Connect the ground cable.

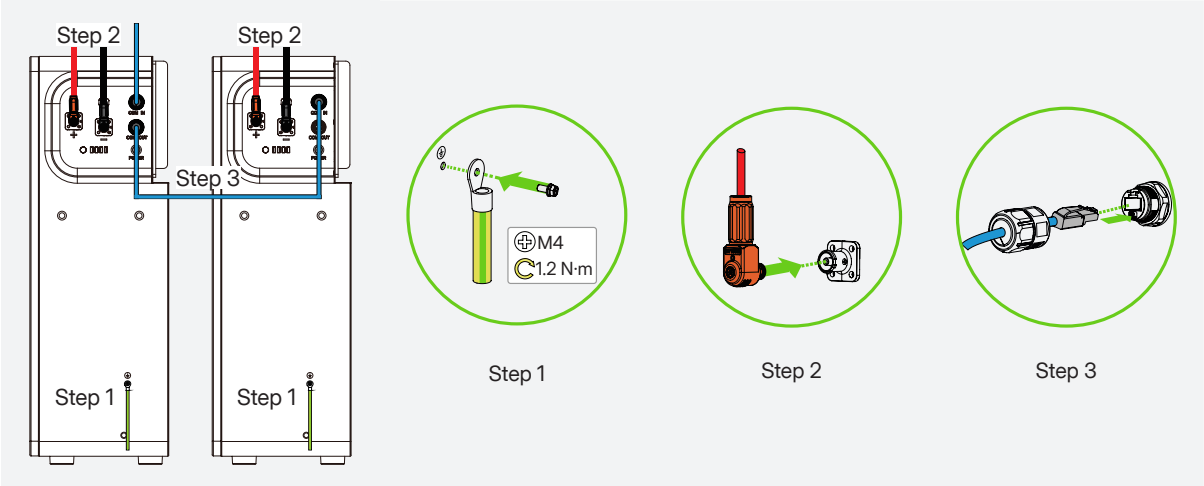
Step 2: Connect the battery positive terminal to the busbar (+) and the negative terminal to the busbar (–).

Step 3: Connect the communication cables.

a. Take the 1.5 m communication cable and plug one end marked INV to the inverter communication port and the other end marked BAT to the master battery COM IN port.

b. Take the 1.0 m communication cable and plug one end marked COM OUT to the master battery COM OUT port and the other end marked COM IN to the slave battery COM IN port.

c. Repeat until all slave batteries are connected.

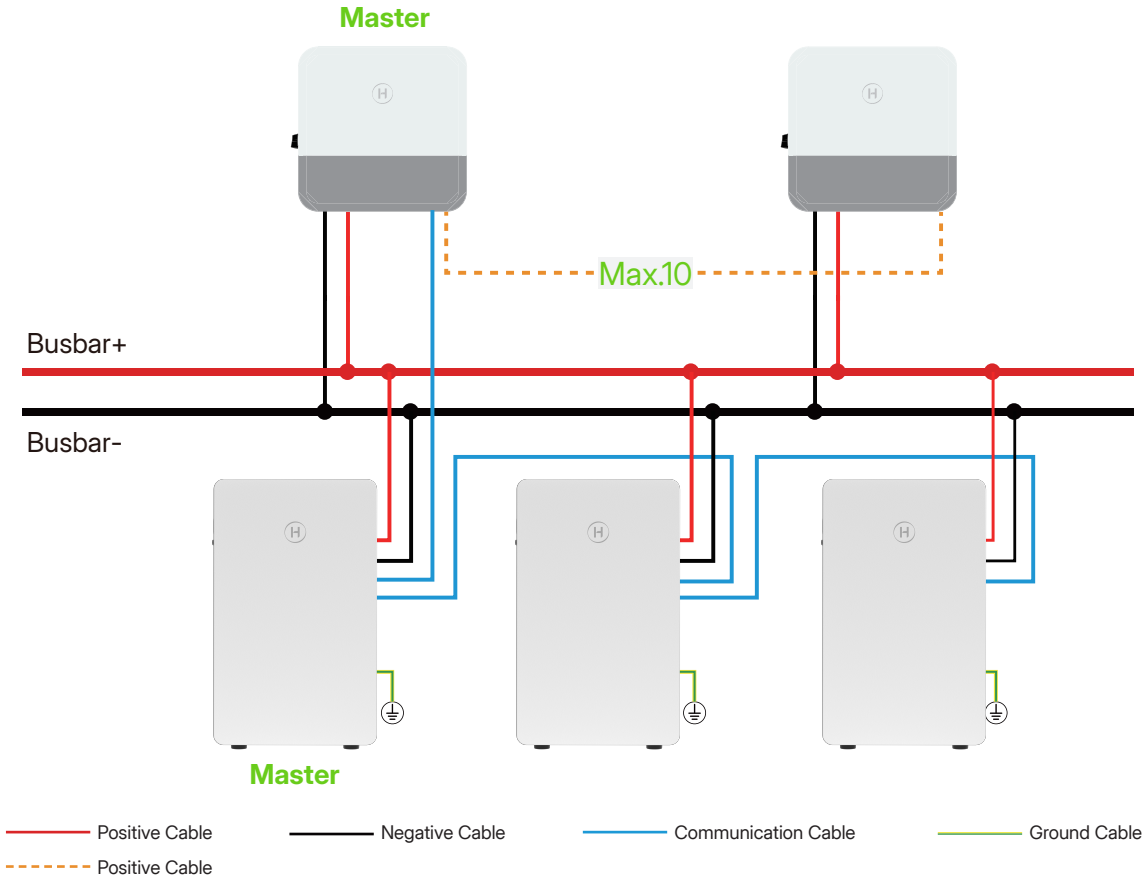


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7.3 Multi-inverter System

Parallel Connection with Busbar (Number of Batteries≥3)



Procedure

Step 1: Connect the ground cable.

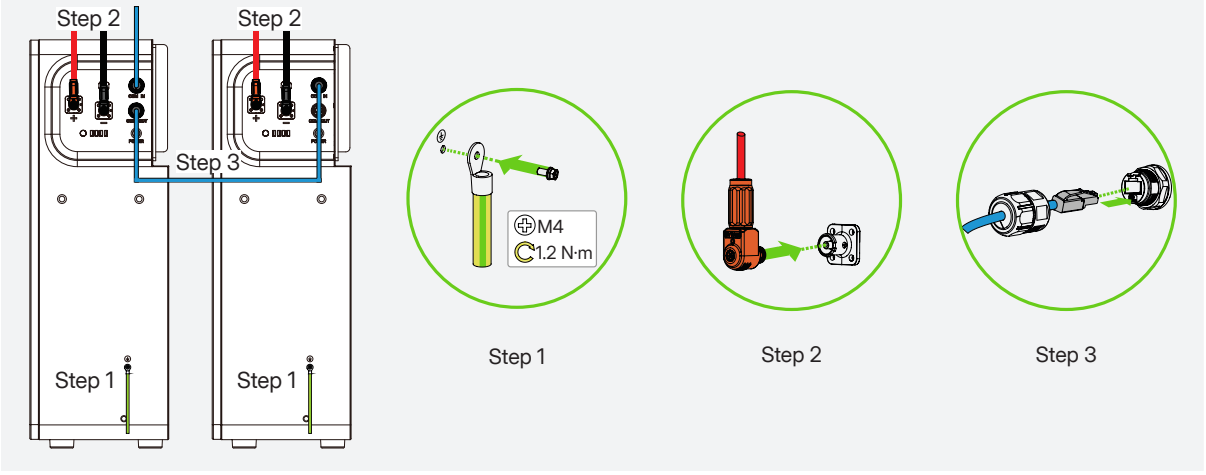
Step 2: Connect the battery positive terminal to the busbar (+) and the negative terminal to the busbar (–).

Step 3: Connect the communication cables.

a. Take the 1.5 m communication cable and plug one end marked INV to the inverter communication port and the other end marked BAT to the master battery COM IN port.

b. Take the 1.0 m communication cable and plug one end marked COM OUT to the master battery COM OUT port and the other end marked COM IN to the slave battery COM IN port.

c. Repeat until all slave batteries are connected.



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8 System Commissioning

8.1 Preparation

Before the commissioning of the product, make sure:

- The power switch and external circuit breaker are disconnected.
- Check wiring according to ***7 Electrical Connection***.
- Unused terminals must be sealed using corresponding sealing plugs.
- Nothing is left on the top of the inverter and battery.
- Cables are routed in a safe place or protected against mechanical damage.
- Warning signs and labels are intact.

8.2 System Power-on

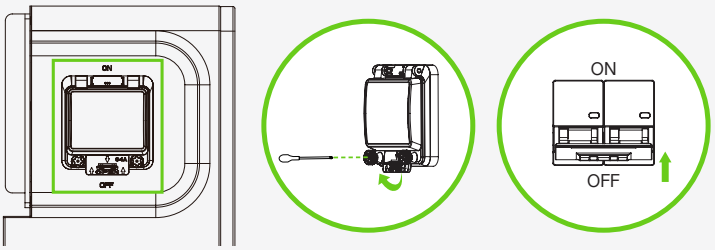
NOTICE

Ensure that all cables are connected correctly and firmly.

Step 1: Turn on the DC circuit breaker.

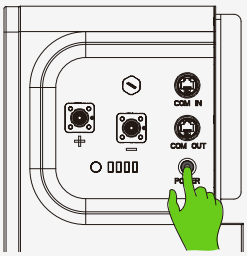
a. Loosen the screws to open the protection cover.

b. Push the breaker handle from **OFF** to **ON**.



Step 2: Press and hold the **POWER** button for 3 seconds.

- For a single-battery system, press the POWER button on that battery.
- For a parallel system, press the POWER button on the master battery.



NOTE

If the battery works with non-Hoymiles inverters, please contact Hoymiles.

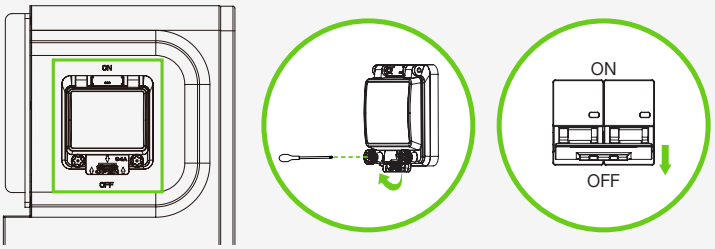
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8.3 System Power-off

Step 1: Press and hold the **POWER** button for 3 seconds.

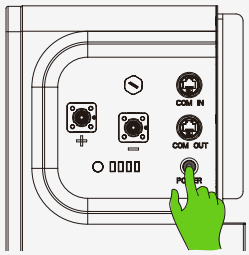
- For a single-battery system, press the POWER button on that battery.
- For a parallel system, press the POWER button on the master battery.



Step 2: Turn off the DC circuit breaker.

a. Loosen the screws to open the protection cover.

b. Push the breaker handle from **ON** to **OFF**.



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9 System Maintenance

9.1 Routine Maintenance

To ensure that the battery can operate for a long time, it is recommended to perform the following maintenance items. Make sure that all maintenance items are performed after the battery is powered off.

Check Item	Check Method	Maintenance Interval
System Cleanliness	• Periodically check whether the battery is damaged or deformed. • Clean the system.	Once every 6 to 12 months
System Operation Status	• Check whether there is abnormal sound during operation. • Check whether the indicator works normally. • Check whether the system parameters are set correctly. • Update the software.	Once every 6 months
Electrical Connection	• Check whether the cables are firmly connected and intact; in particular, ensure that the parts being contacted with the metal surface are not scratched; • Check whether the cable is discolored.	The first inspection is 6 months after the initial commissioning, and the subsequent inspections can be carried out once every 6 to 12 months.
Grounding Reliability	Check whether the ground cables are firmly connected.	The first inspection is 6 months after the initial commissioning, and the subsequent inspections can be carried out once every 6 to 12 months.

9.2 Troubleshooting

Fault	Possible Causes	Handling Suggestions
The power switch has no response	The switch is broken; The cables are damaged or not properly connected.	Please contact the supplier to repair or replace the battery.
The discharge time decreases abnormally	The battery capacity is insufficient.	Charge the battery until it is fully charged.
	Low ambient temperature.	Ensure that the product works within the recommended temperature range.
	Overload.	Check the load status and remove non-essential loads.
	Battery aging and capacity fading.	Please contact the supplier to replace the battery.
Unable to charge and discharge	The battery is discharged to the protection SOC.	The battery should be charged to a value greater than the discharge protection SOC.
	Overvoltage protection.	Log in to the S-Miles App, view the fault information, and contact the supplier.
	Undervoltage protection.	
	Overtemperature protection.	
	Undertemperature protection.	

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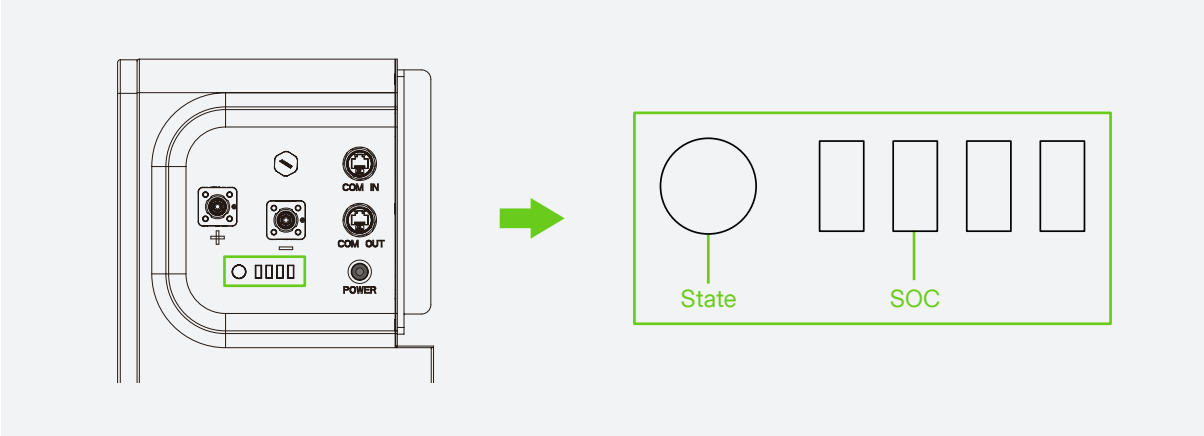
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Unable to charge and discharge	Internal fault.	Log in to the S-Miles App, view the fault information, and contact the supplier.
After the system is started, the indicator is not on or the indicator is abnormal	The battery SOC is low.	Log in to the S-Miles App to check if the SOC is low, if it is, contact the supplier to forcibly charge the battery.
	The indicator is damaged.	Please contact the supplier to repair or replace the battery.
Battery communication is abnormal	The communication is disconnected.	Check whether the battery packs are installed reliably, and confirm whether the battery is abnormal through the battery indicator status.
The “State” indicator is solid red	Other faults.	Log in to the S-Miles App, view the fault information, and contact the supplier.
The battery doesn’t work	The battery voltage is too low, or the battery SOC is lower than the shutdown protection value.	After the inverter is connected to the grid, charge the battery.

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9.3 LED Indicators



Indicator		Indicator Status	Battery Status
Status		Solid blue	• The battery works normally. • The battery is in standby.
		Solid red	A fault occurs.
SOC		1/4 LED on	SOC is 0–25%.
		2/4 LEDs on	SOC is 25%–50%.
		3/4 LEDs on	SOC is 50%–75%.
		All LEDs on	SOC is 75%–100%.
		Flashing blue in a rightward sequence	The battery is charging.
		Flashing blue in a leftward sequence	The battery is discharging.
All		Status indicator solid blue, SOC indicators flashing blue (0.5 s gap)	• The battery is in precharge. • The battery is in self-check. • The battery is being upgraded.
		Status indicator solid red, SOC indicators flashing blue (0.5 s gap)	Communication failure occurs.
		Off	The battery is turned off.

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10 Decommissioning

10.1 Removing the Product

Step 1 Power off the product as described in ***8.3 System Power-off***.

Step 2 Disconnect all cables.

Step 3 Remove the product and the brackets from the wall.

10.2 Packing the Product

If the original package is available, put the product and its accessories into the package and keep it in a dry and proper place.

If the original package is not available, put the product and its accessories into a suitable package. The package should be easy to remove, can bear the weight of the product, and can be sealed properly.

10.3 Disposing of the Product

Disposal of the system must comply with applicable local regulations for the disposal of electronic waste and used batteries.

- Do not dispose of the battery system with your household waste.
- Avoid exposing the battery to high temperatures or direct sunlight.
- Avoid exposing batteries to high humidity or corrosive environments.
- For more information, please contact the original manufacturer.

11 Handling Precautions and Guidelines for Product

These Handling Precautions and Guidelines for Rechargeable Battery System ("Handling Precautions and Guidelines") shall only apply to the packs manufactured by Hoymiles. Customers shall strictly follow these Handling Precautions and Guidelines, and shall alert its customers, contract manufacturers, agents, distributors, service providers, and end-users of the risks of the packs. Customers should also ensure that they observe their obligations as specified in the document and the handling precautions and guidelines. Detailed information is available on the printed label of the product, a quick installation guide, a help file, or an official website. The entire chain including customers, distributors, and end-users should be committed to these obligations so that the product can be properly handled, transported, installed, operated, and maintained.

Statement (1):

Customers are requested to contact Hoymiles in advance, if and when customers need other applications or operating conditions other than those described in this document. Additional experimentation may be required to verify performance and safety under such conditions.

Statement (2):

Hoymiles will take no responsibility for any accidents in the event the product is used for applications or under conditions other than those described in this document.

- Use the product under specified charge/discharge conditions.
- Do not immerse the product in water.
- Do not heat the product.
- Do not attempt to crush, drop, or penetrate the product.
- Do not attempt to make any modifications.

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- Leave the product in cool places.
- Stop using the product with any color change or mechanical damage detected during assembly, charging, normal operation, and storage.
- In case of leakage or smells, track to the thermal source, remove the thermal source, and clean it with water.
- Do not place or leave the pack and equipment in the reach of the children.
- Keep leaked electrolytes away from the eyes or skin. In case of leakage contact with eyes or skin, immediately clean with water and seek help from a doctor. Serious damage can be caused due to delayed treatment.
- Do not put the pack into a fire. Do not use it or leave it in a place near fire, heaters, or high-temperature sources. The heat can melt the pack's insulator and damage the safety vent, resulting in overheating, explosion, or fire of the pack.
- Do not submerge the product in water or wet the product. If the protective devices are damaged, abnormal charging current and voltage may cause a chemical reaction within the product, which may result in overheating, explosion, or fire of the pack.
- Do not reverse-connect the positive (+) and negative (-) terminals of the product.
- Do not contact the product terminals (+ and -) directly with a wire or any metal (like a metal necklace or a hairpin). Otherwise, the product will be short-circuited and generate excessive current, which may result in the overheating, explosion, or fire of the pack.
- Do not throw or drop the pack. Strong impact may damage the protective devices, and an abnormal chemical reaction might occur during charge, resulting in overheating, explosion, or fire of the pack.
- Do not drive a nail in, hit with a hammer, or stamp on the pack. Otherwise, the pack may be deformed and short-circuited, resulting in overheating, explosion, or fire of the pack.
- Do not solder the pack directly. Heat applied during soldering may damage the insulator of the safety vent and mechanism, resulting in overheating, explosion, or fire of the pack.
- Do not disassemble or alter the pack. The pack employs a safety mechanism and a protection device to avoid any danger. If they are damaged, the pack might overheat, explode, or catch fire.
- Do not put the pack in a microwave oven or a pressure cooker. Sudden heat may damage the sealing of the pack and may cause overheating, explosion, or fire of the pack.
- Do not leave the pack in a charger or equipment if it generates an odour and/or heat, changes color and/or shape, leaks electrolytes, or encounters any other abnormality. In such a case, immediately take the pack out of the charger or equipment and keep it away from fire. Otherwise, the pack might overheat, explode, or catch fire.
- Stop charging or using the battery after the battery reaches its lifetime; otherwise, the battery might cause overheating, explosion, or fire.
- Do not use the pack beyond specified conditions. Otherwise, the pack might encounter overheating, damage, or performance deterioration.
- Read the instructions regarding the installation and operation to avoid damage by incorrect operations.
- The battery may have insufficient power capacity after long storage.
- Knockoff or counterfeit battery.
- Any inconsistency among serial number, model number, and product code.

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12 Technical Datasheet

Model	LB-10D-G3
System Data	
Battery type	$LiFePO_4$
Rated capacity (Ah)	314
Total energy (kWh)	10
Rated voltage (V)	51.2
Voltage range (V)	44.8 to 60
Max. continuous charging/discharging current (A)	100
Peak charging/discharging current (A)	150 (10s)
Communication	CAN
Recommended depth of discharge (DOD)	90%
Max. parallel quantity	16
Protection	
Overvoltage and undervoltage protection	Integrated
Overcurrent protection	Integrated
Overtemperature and undertemperature protection	Integrated
DC breaker	Integrated
Heating	Optional
General	
Dimensions (W × H × D [mm])(1)	410 × 678 × 236
Weight (kg)(1)	80
Installation Environment	Indoor / Outdoor
Mounting	Wall mounted / Floor standing
Wall-mounted bracket	Optional
Charging temperature (°C)	0 to +55 (-20 to +55 with optional heating)
Discharging temperature (°C)	-20 to +55
Protection degree	IP65
Cooling	Natural convection
Altitude (m)	≤2000
Cycle life (25°C, 0.5C)	8000 Cycles, 90% DOD, 70% EOL
Certification	IEC 62619, UN 38.3, CE-EMC
Warranty(2)	5 to 10 Years

(1) The actual dimensions and weight may differ. For details, please contact Hoymiles sales.
(2) Please refer to Hoymiles Warranty Terms & Conditions for more details.

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