

USER MANUAL

UE-51.2LI206WM 10.5KWH

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CONTENTS

01 Revision History
Pag. 3

02 About This Manual
Pag. 4

03 How to Use This Manual
Pag. 4

04 Safety Introductions
Pag. 4-5
- 4.1 Warning
- 4.2 Caution

05 Transportation
Pag. 6

06 Introductions
Pag. 7-13
- 6.1 Symbol Definition
- 6.2 Brief Introduction
- 6.3 Features
- 6.4 Product Overview
- 6.5 LCD Display Icons
- 6.6 Battery Management System(BMS)
- 6.7 System Connection Diagram

07 Installation and Configuration
Pag. 14-20
- 7.1 Preparations for Installation
- 7.2 Unpacking Inspection
- 7.3 Installation Procedure

08 Operation
Pag. 21-24
- 8.1 Description of Communication Port
- 8.2 Parallel DIP Switch
- 8.3 Switch On/Off

09 Manage Devices Via Network
Pag. 25-28
- 9.1 Configure Network
- 9.2 Create the Plant

10 Maintenance and Troubleshooting
Pag. 29-30
- 10.1 Storage
- 10.2 Maintenance Troubleshooting

11 Battery recovery
Pag. 31
- 11.1 Recovery process and steps of cathode materials
- 11.2 Recovery of anode materials
- 11.3 Recovery of diaphragm
- 11.4 List of recycling equipment

12 Appendix I
Pag. 32

1. Revision History

Revision NO.	Revision Date	Revision Reason
1.0	2026.1	First Published
2.0	2026.3	Weight update

2. About This Manual

The manual mainly describes the introduction, installation, operation, and maintenance. Please read this manual carefully before installation and operation. Keep this manual for future reference.

3. How to Use This Manual

Please read this manual and all relevant documents thoroughly before carrying out any operations on the battery. Ensure that the documents are stored securely and remain accessible at all times. The content may be periodically revised or updated to reflect product improvements.

4. Safety Introductions

⚠ 4.1 Warning

4.1.1 Before Connecting

- After unpacking, inspect the product and packing list carefully. If any damage is found or parts are missing, please reach out to your local retailer for assistance.
- Before starting the installation, disconnect the grid power and confirm that the battery is turned off.
- Ensure proper wiring by connecting the positive and negative cables correctly and avoiding any short circuits with external devices.
- Directly connecting the battery to AC power is strictly prohibited.
- The battery system must be properly grounded, with a grounding resistance of less than 1Ω.
- Verify that the electrical parameters of the battery system are fully compatible with the connected equipment.

4.1.2 In Using

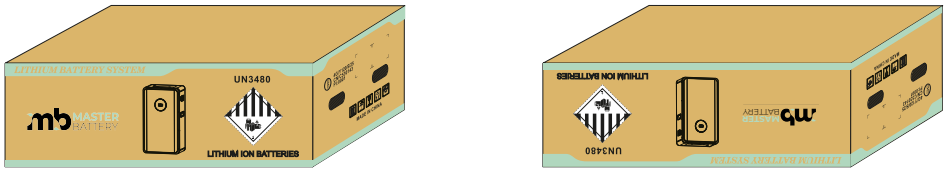
- If the battery system needs to be moved or serviced, ensure that the power is disconnected and the battery is fully powered down.
- Connecting the battery with a different type of battery is strictly prohibited.
- Do not operate the batteries with a faulty or incompatible inverter.
- Disassembling the battery is not allowed.
- In the event of a fire, only dry powder fire extinguishers should be used; liquid fire extinguishers must not be used.
- Please refrain from opening, repairing, or disassembling the battery unless performed by Master Battery staff or personnel authorized by Master Battery. Any consequences or responsibilities arising from improper operation or violations of design, manufacturing, or equipment safety standards will not be assumed by us.
- Keep the battery away from water and fire.

⚠ 4.2 Caution

- Our products undergo rigorous inspection before shipment. If you notice any unusual signs, such as the device casing bulging, please contact us promptly.
- The product must be properly grounded prior to use to ensure safety.
- To ensure correct usage, verify that the parameters of the connected devices are compatible and matched. Avoid mixing batteries from different manufacturers, types, or models, as well as using old and new batteries together.
- The ambient environment and storage methods can affect the product's lifespan. Please adhere to the operating environment guidelines to ensure the device functions optimally.
- For long-term storage, recharge the battery every six months, ensuring the charge exceeds 80% of its rated capacity.
- Recharge the battery within 18 hours after it has fully discharged or when over-discharge protection mode is triggered.
- The formula for calculating theoretical standby time is: T = C/I (where T represents standby time, C is the battery capacity, and I is the total current of all loads).

5. Transportation

The battery module can only be transported in an upright position.



Smoking is prohibited in the vehicle during transportation or in the vicinity during loading and unloading

The dangerous goods transport vehicles shall meet relevant regulations concerning roadtransportation and shall be equipped with two tested CO2 fire extinguishers.

If possible, do not remove the transport packaging before arrival at the installation site.Before removing the transport protector, check if the transport packaging is damaged.

Improper transport of battery modules may cause injury. It could cause injury if it falls or slips. Use only suitable transport and lifting equipment to ensure safe transport.

Wear safety shoes to avoid the danger of injury. When transporting the battery module,their parts may be crushed due to their heavy weight. Therefore, all persons involved in transportation must wear safety shoes with toe caps. Please observe the safety regulations for transportation at the end customer's site, especially during loading and unloading.

During transportation and installation of unpacked battery storage cabinets, the risk of injury increases, especially on sharp metal panels. Therefore, all personnel involved in transportation and installation must wear protective gloves.

Improper vehicle transportation can cause injury. Improper transportation or improper transportation locks may cause the load to slip or overturn,resulting in injury.

The transportation of Li-Ion batteries is classified under hazard category UN3480, Class 9. For transport via sea, air, or land, the batteries are categorized under Packaging Group PI965 Section I. Use Class 9 Miscellaneous Dangerous Goods and UN Identification labels for transportation of lithium-ion batteries which are assigned Class 9. Please refer to the relevant transportation documentation for details.

6. Introductions

6.1 Symbol Definition

	Danger! Serious physical injury or even death may occur if not follow the relative requirements.		Install the product out of reach of children
	Caution, risk of electric shock.		Do not place nor install near flammable or explosive materials
	In case of electrolyte leakage, keep leaked electrolyte away from eyes or skin.		Disconnect the equipment before carrying out maintenance or repair
	Do not connect the Pack's positive(+) and negative(-)terminal reversely.		EU WEEE mark: Product should not be disposed as household waste.
	Observe precautions for handling electrostatic discharge sensitive devices.		Instruction manual: Read the instruction manual before starting installation and operation.
	Caution, risk of electric shock, energy storage timed discharge		CE mark: The inverter complies with the CE directive.
	Recyclable.	**NOTE**	Note:The procedures taken for ensuring proper operation.
	Do not use the Pack beyond specified conditions		Earth terminal: The inverter must be reliably grounded.
	Take care! This Pack is heavy enough to cause serious injury.		

6.2 Brief Introduction

UE-51.2LI206WM is equipped with a lithium iron phosphate battery designed for household use. Developed based on customer needs and market demands, this advanced battery storage solution provides high-quality, reliable power for various devices. The product features a long lifespan, suitability for high-temperature environments, and a compact design that requires minimal installation space.

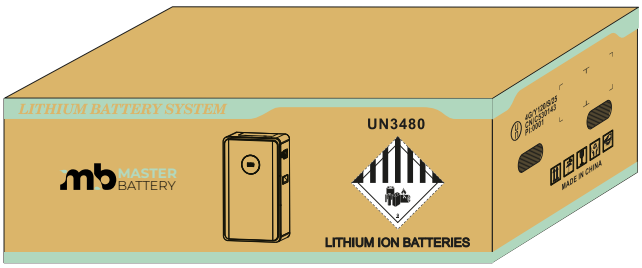
UE-51.2LI206WM features a battery management system independently developed by our team. When connected to a grid or photovoltaic system as the power source, the product can store energy by charging the battery. In the event of a power outage from the grid or photovoltaic system, the product independently supplies electricity to household loads. Additionally, multiple units can be connected in parallel to form a high-capacity, multi-module system, meeting long-term energy storage requirements.

6.3 Features

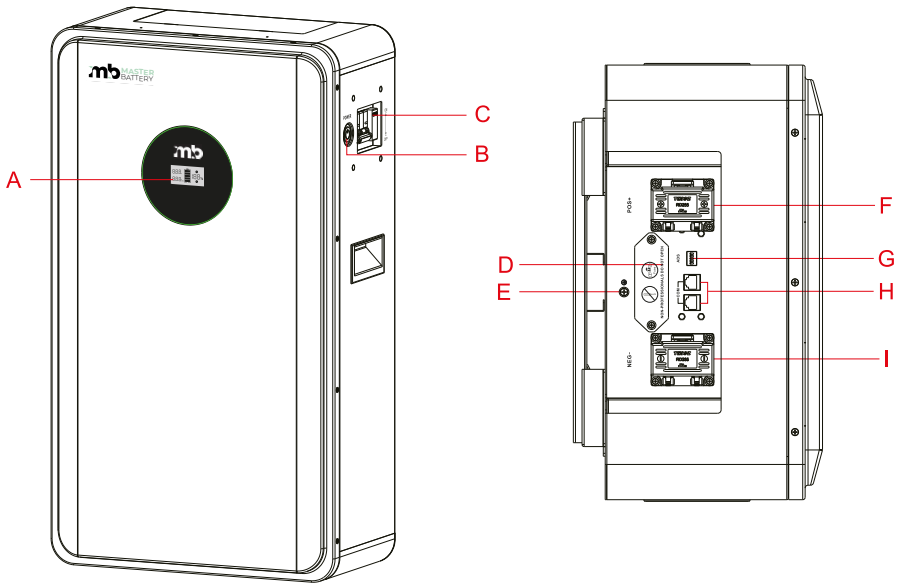
- LiFePO4: Higher safe performance and longer cycle life.
- Multiple Protection: Built-in smart BMS, Breaker and Fuse.
- Flexible Installation: Wall-Mounted, Floor-Mounted
- Wide Compatibility: Compatible with leading inverter brands.
- High Scalability: Energy up to 157.5kWh .
- Built-in WIFI/Bluetooth: Remote monitoring of battery pack data.
- Equipped with an aerosol fire extinguishing system.
- When the battery experiences overcurrent causing the fuse to blow, it can be easily replaced externally, providing great convenience.

6.4 Product Overview

6.4.1 External Packaging

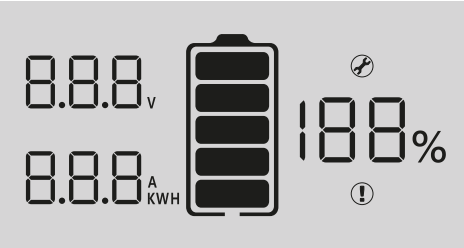


6.4.2 Product Appearance Display



Code	Name	Definition
A	LCD Display	Indicate the battery's SOC
B	Power/Running Status	1.Indicate the power on/off function: press once to turn on, press and hold for 3 seconds to turn off; 2. A green light indicates normal status, while a red light indicates fault status.
C	ON/OFF Switch	Circuit protection for overvoltage
D	Fuse	Circuit protection for overcurrent
E	PE	Shell ground connection
F	POS+	The DC output positive pole of the battery, connected to the inverter's positive pole via a cable.
G	ADS	Set each battery's ID through DIP switches
H	COM	When the system is used in parallel: This CAN/RS485 communication socket is connected to the COM interface through communication cable.
I	NEG-	The DC output negative pole of the battery, connected to the inverter's negative pole via a cable.

6.5 LCD Display Icons



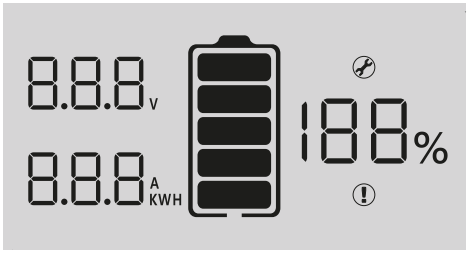
Icon	Function Description
Display Information	
8.8.8 V	Indicates battery voltage
8.8.8 A KW	Indicates battery current or watt Short press the switch button to switch watt and current
188%	Indicate SOC
Battery Information	
	Indicates battery level by 0-20%, 21-40%, 41-60%, 61-80%, 81-100%. (When charging, this icon is displayed for horse running; When discharging,the icon displays constant)
Fault Information	
	Indicates a fault
Set Information	
	Indicates settings

6.5.1 BMS Information Page

The basic information will be displayed in turn after power on.

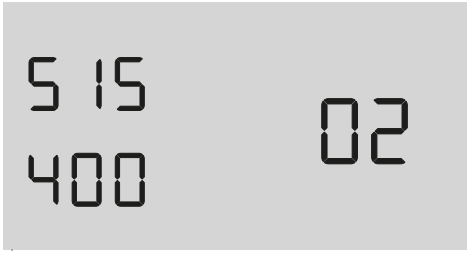
BMS power on information

BMS information is all on.



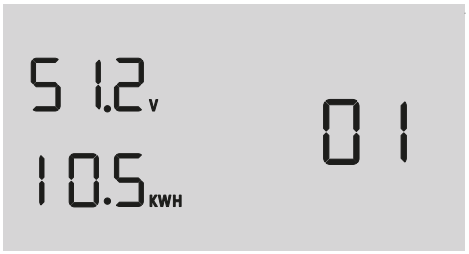
BMS Version

Eg:“515"is the software version; “400" is the IAP version and temporary version; “02"is the countdown.



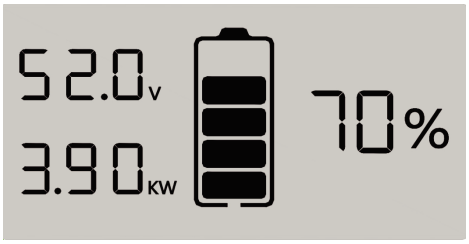
BMS Type

Eg: Rated voltage is "51.2V"; model is "10.5KWH", “01"is the countdown.



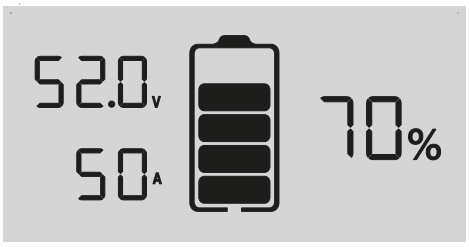
BMS Data

Eg:"52.0V"/"3.90KW"/"70%" refers to battery voltage. power and SOC



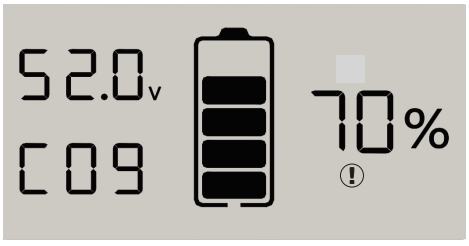
BMS Data

Eg:"52.0V"/"50A"/"70%" refers to battery voltage current and SOC



BMS Fault Code / Flag

Eg:"52.0V" /"C09" /"70%" are battery voltage, fault code and SOC respectively, and Fault icon constant



6.5.2 Fault Code Table

Code	Fault Information	Trouble Shooting
C01	Battery overvoltage	Restart the unit, If the error happens again, please return to repair center.
C02	Battery undervoltage	Restart the unit, If the error happens again, please return to repair center.
C03	Cell overvoltage	Restart the unit, If the error happens again, please return to repair center.
C04	Cell undervoltage	Restart the unit, If the error happens again, please return to repair center.
C05	Charge overcurrent	Restart the unit, If the error happens again, please return to repair center.
C06	Discharge overcurrent	Restart the unit, If the error happens again, please return to repair center.

Code	Fault Information	Trouble Shooting
C07	MOS overtemperature	1.The inner temperature is over the limitation. 2.Check whether the ambient temperature is too high.
C08	MOS undertemperature	1.The internal temperature is lower than the limit range. 2.Check whether the ambient temperature is too low.
C09	Cell ovetemperature	Restart the unit, If the error happens again, please return to repair center.
C10	Cell undertemperature	Restart the unit, If the error happens again, please return to repair center.
C11	AFE communication lost	Restart the unit, If the error happens again, please return to repair center.
C12	MOS short circuit	Restart the unit, If the error happens again, please return to repair center.
C13	Parallel failed	1.Please check if single unit is installed to parallel system. 2. If this error happens during parallel installation, please check wires connectiotn. If they are connected correctly, please funish parallel installation first, and then restart the unit. 3. If the problem remains, please contact your installer.
C14	Output loss	1. Please check whether the circuit breaker is closed; 2. Please check whether the fuse is normal; 3. Restart the unit, If the error happens again, please return to repair center.
C15	Temperature Difference Fault	Restart the unit, If the error happens again, please return to repair center.

6.6 Battery Management System(BMS)

Voltage Protection

Low Voltage Protection in Charging:

When the voltage of any battery cell or the total voltage falls below the rated protection value during discharging, over-discharging protection is activated, and the battery system stops supplying power externally. Once the voltage of each cell returns to the rated range, the protection is released.

Over Voltage Protection in Charging:

During charging stage, the system will stop charging when the total voltage of the battery pack is higher than rated value or the voltage of any single cell reaches the protection value. When total voltage or all cell back to rated range, the protection is over.

Current Protection

Over Current Protection in Charging:

When the charging current reaches the trigger value and lasts for 15 seconds, charging overcurrent protection is activated, entering fault mode. The battery disables both charging input and discharging output, and displays fault code C05 on the screen. The fault is automatically cleared after 1 minute. After 10 occurrences, the fault can no longer clear automatically, requiring a manual battery restart.

Over Current Protection in Discharging:

When the discharging current reaches the trigger value and lasts for 15 seconds, discharging overcurrent protection is activated, entering fault mode. The battery disables both charging input and discharging

output, and displays fault code C06 on the screen. The fault is automatically cleared after 1 minute. After 10 occurrences, the fault can no longer clear automatically, requiring a manual battery restart.

6.7 System Connection Diagram

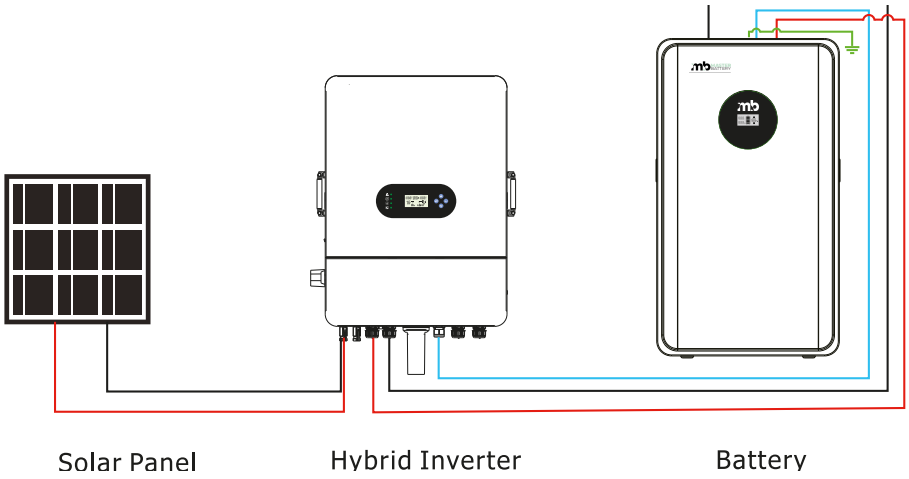


Figure 6-1 Single Battery System Connection Diagram

When paralleling multiple battery packs, please use a combiner box or a copper busbar.

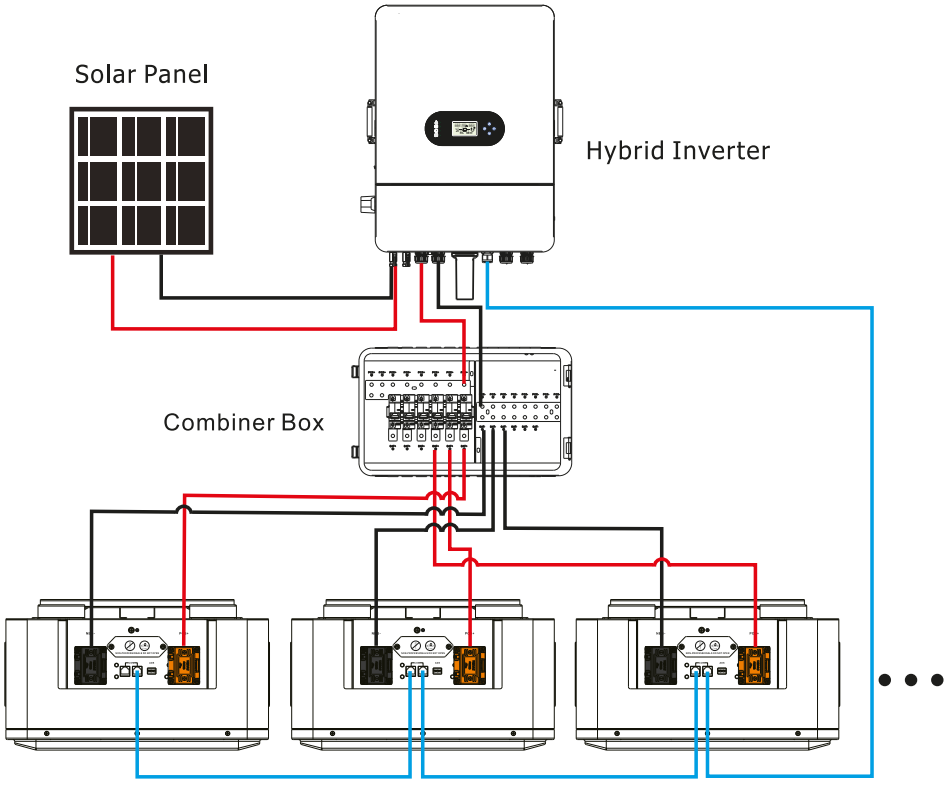


Figure 6-2 Multiple Battery Parallel System Connection Diagram

7. Installation and Configuration

7.1 Preparations for Installation

7.1.1 Safety Requirement

This system must only be installed by personnel trained in power supply systems and possessing adequate knowledge of such systems.

The safety guidelines outlined below, along with applicable local safety standards, must be strictly adhered to during installation.

- All circuits interfacing with this power system and carrying external voltages below 48V must comply with SELV requirements as specified in the IEC60950 standard.
- If working within the power system cabinet, ensure the system is completely powered down, and all battery devices are switched off.
- The distribution cables should be arranged systematically and equipped with protective measures to prevent accidental contact while operating power equipment.

7.1.2 Installation Environment

- Working temperature: -20°C~+55°C
- Charging temperature range: 0°C~+55°C
- Discharging temperature range: -20°C~+55°C
- Storage temperature: 0°C~+35°C
- Elevation: ≤2000m

Operating environment: Suitable for indoor installation at locations shielded from direct sunlight, wind, conductive dust, and corrosive gases.

Ensure the following conditions are met:

- The installation site should be distant from the sea to prevent exposure to saltwater and high humidity.
- The ground at the installation location must be flat and level.
- The site should be free of flammable or explosive materials.
- Optimal ambient temperature: 20°C to 30°C.
- Avoid areas with excessive dust or clutter.

7.1.3 Tools


Screw Driver


Crimping Modular


Safety Shoes


Multimeter


Safety Gloves


Safety Goggles


Plier


Ribbon


Electric drill

7.2 Unpacking Inspection

- Upon arrival at the installation site, loading and unloading should strictly follow the established rules and procedures to prevent exposure to sunlight and rain.
- Before unpacking, verify the total number of packages against the shipping list attached to each package, and inspect the outer cases for any signs of damage. After unpacking, carefully check for loose or damaged wiring and contacts, cracks, deformations, leaks, or any other form of damage. If any damage is detected, the battery must be replaced immediately. Do not attempt to charge or use a damaged battery, and avoid contact with any liquid from a ruptured battery.
- During unpacking, handle all components with care to protect the surface coating from damage.

No.	Description	Quantity	Picture
1	User manual	1	
2	Warranty card	1	
3	Lock wall components: Used for product wall fixation	1	
4	Power Cable:50mm², used for connecting to external PCS	2	
5	Communication Cable:Gray, used for RS485 communicationwith Master Battery inverters (Model:IVCM,IVEM,IVPS/M IVGM)	1	
6	Communication Cable: Blue, used for communication with inverters from other brands.	1	
7	Communication Cable: Black,used for parallel communication between battery packs	1	

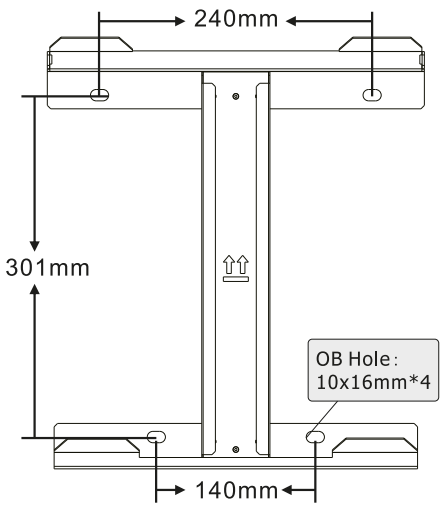
No.	Description	Quantity	Picture
8	Signal Terminal: Used for creating custom communication cables	2	
9	M4X12 combination screws x2 PCS M8X60 expansion bolt assembly x4 PCS	/	
10	Fuse: Spare parts for repair and replacement in caseof fuse damage	1	

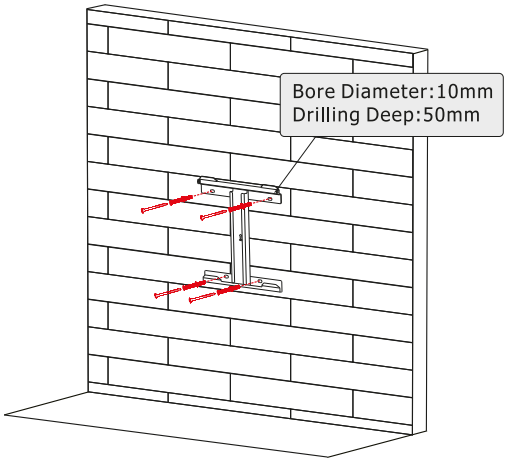
7.3 Installation Procedure

7.3.1 Mounting the Battery

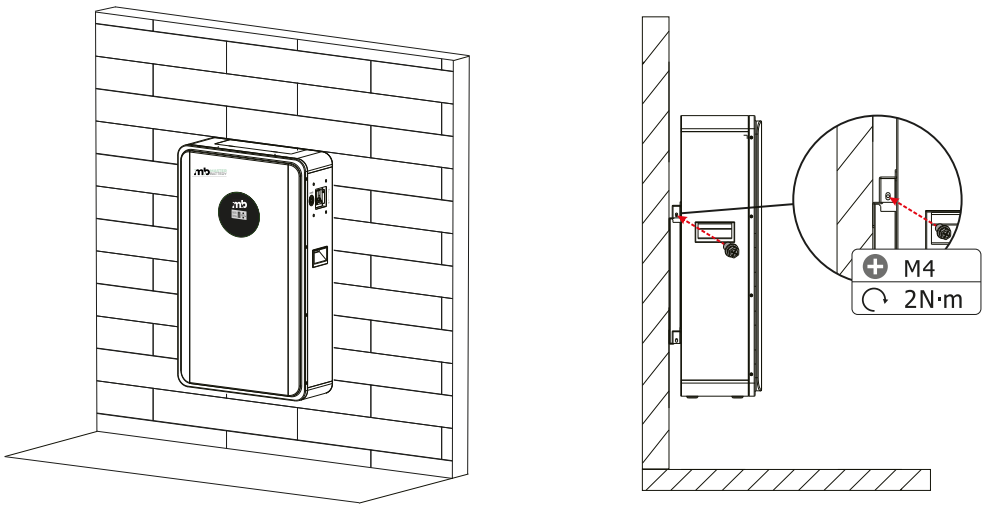
(a) Wall-Mounted method

Step 1: Using wall mounted components, first fix the wall mounted components to the wall.Use a 10mm drill bit (10mm diameter, 50mm depth) to drill 4 holes in the correct location.





Step 2: Lift the machine onto the wall mounted components to secure it, Lock one M4*12 screw on the left and right sides of the wall mount.



Note:

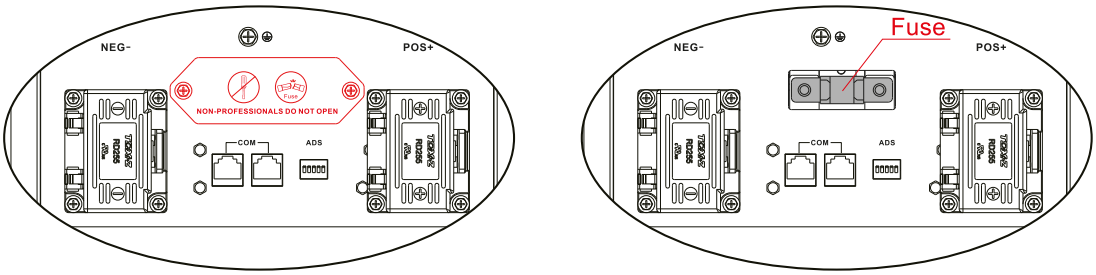
1. Do not use wall mounted components, place the chassis against the wall and secure it with fixing components

2. If the fuse is blown, please follow the steps below:

Step 1: Use a Phillips-head screwdriver to remove the screws from the fuse cover.

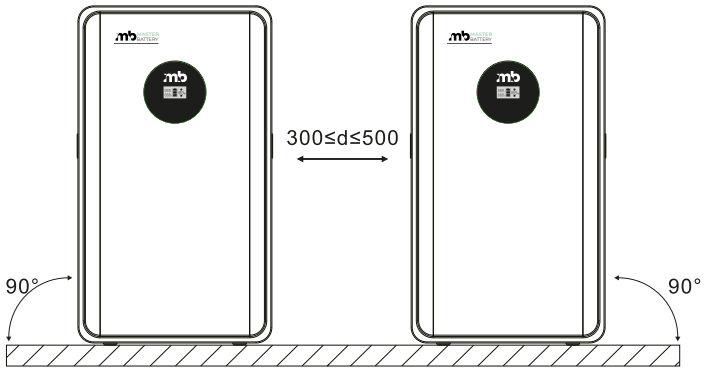
Step 2: Open the fuse cover, remove the old fuse, and replace it with the new one.

Step 3: Reattach the fuse cover and secure it in place.

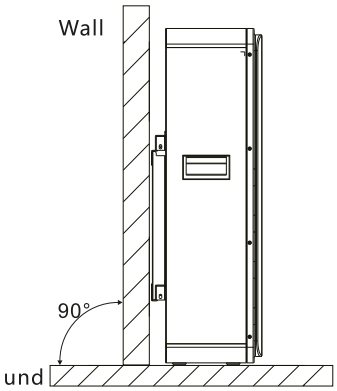


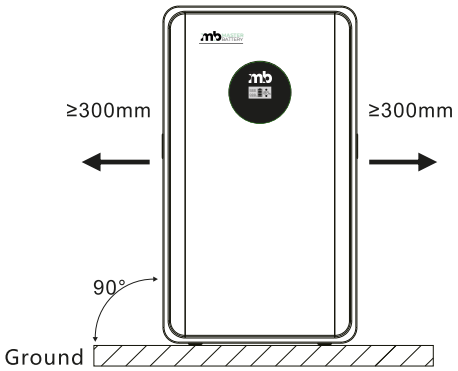
Fuse(Non professionals are not allowed to open this cover)

(b) Floor-Mounted method



Ground(Two rows installtion)





7.3.2 Batteries in parallel

The UE-51.2LI206WM support to be connected in parallel for expansion. If you need one more battery bank to work in parallel mode, connect the battery as shown in Figure 7-1.

* It is recommended to use battery pack combiner box(BTCB0606/BTCB0303) or confluence copper bar confluence.

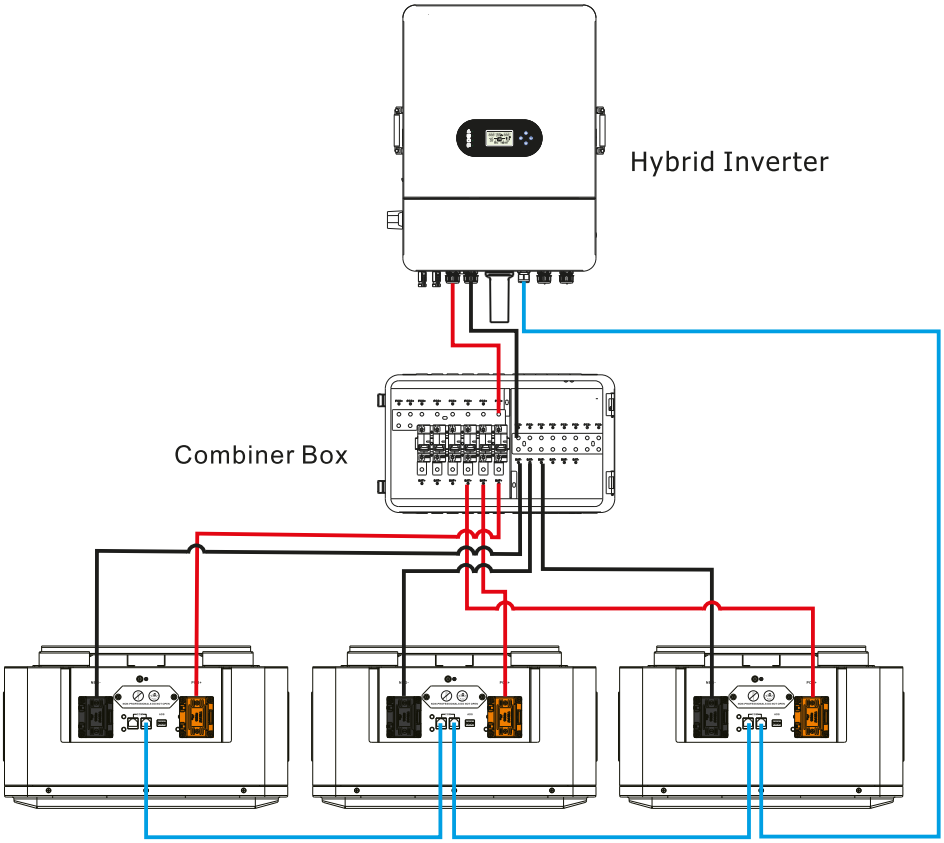
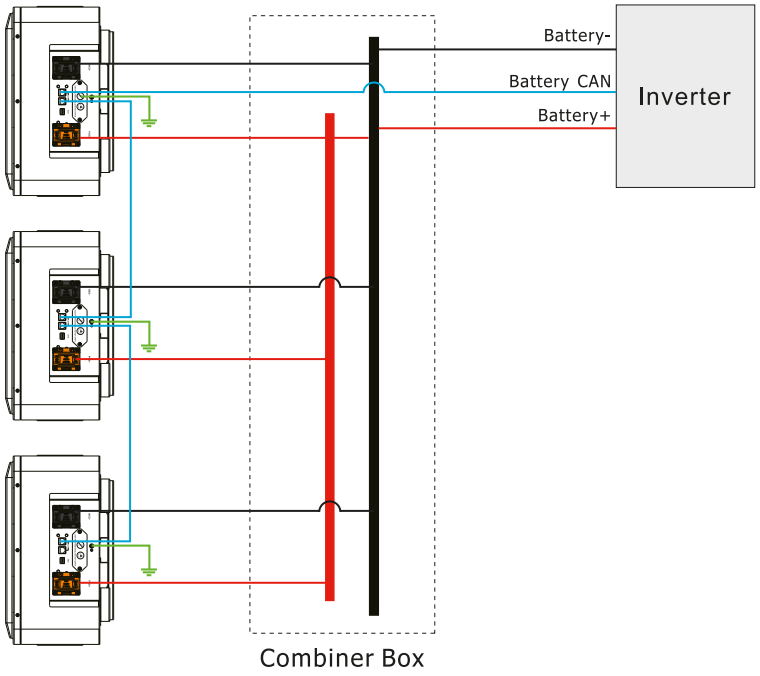


Figure 7-1 The parallel connection of three battery packs



7.3.3 Series connection is not allowed

1)The batteries can be connected in parallel. Series connection is not allowed.Use in upright position only.

2)The batteries are not allowed to connected with PWM controller for chargingSpecial Attention: Due to the built-in protection board of the lithium battery pack is with over-discharge protection function, it is strongly recommended to stop using the load when the battery pack is over-discharged. The battery pack cannot be repeatedly activated fordis charge. Or the battery may be failed to be activated by the AC or PV activation cable It requires a special charging activation method), so cannot be charged. Therefore, when the battery pack is low power, please charge the battery as soon as possible when main power or solar energy is available.

8. Operation

8.1 Description of Communication Port



BATTERY-Master Battery

Pin	Color	Definition
1	ORG-WH	CAN-GND
2	ORG	+5V-BUS
3	GN-WH	CANL-PCS
4	BU	CANH-PCS
5	BU-WH	RS485-B
6	GN	RS485-A
7	BN-WH	CANL
8	BN	CANH

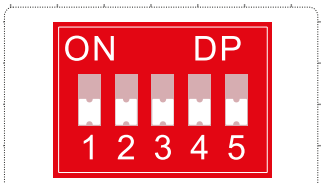
INVERTER

Pin	Color	Definition
1	ORG-WH	/
2	ORG	/
3	GN-WH	CANL-PCS
4	BU	CANH-PCS
5	BU-WH	RS485-B
6	GN	RS485-A
7	BN-WH	/
8	BN	/



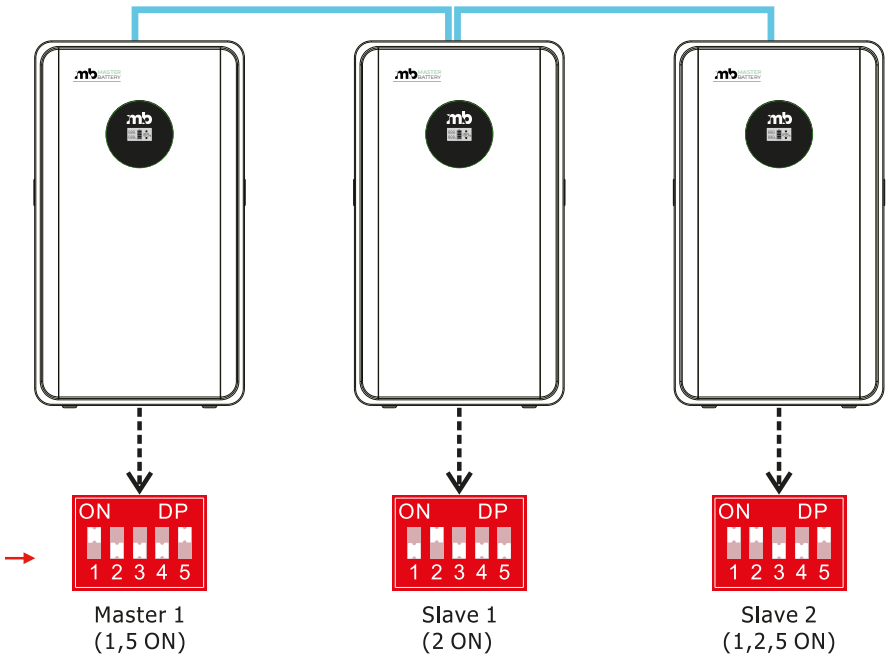
8.2 Parallel DIP Switch

8.2.1 DIP Code Table



No.of BAT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1PCS	1,5 ON														
2PCS	1,5 ON	2,5 ON													
3PCS	1,5 ON	2 ON	1,2,5 ON												
4PCS	1,5 ON	2 ON	1,2 ON	3,5 ON											
5PCS	1,5 ON	2 ON	1,2 ON	3 ON	1,3,5 ON										
6PCS	1,5 ON	2 ON	1,2 ON	3 ON	1,3 ON	2,3,5 ON									
7PCS	1,5 ON	2 ON	1,2 ON	3 ON	1,3 ON	2,3 ON	1,2,3,5 ON								
8PCS	1,5 ON	2 ON	1,2 ON	3 ON	1,3 ON	2,3 ON	1,2,3 ON	4,5 ON							
9PCS	1,5 ON	2 ON	1,2 ON	3 ON	1,3 ON	2,3 ON	1,2,3 ON	4 ON	1,4,5 ON						
10PCS	1,5 ON	2 ON	1,2 ON	3 ON	1,3 ON	2,3 ON	1,2,3 ON	4 ON	1,4 ON	2,4,5 ON					
11PCS	1,5 ON	2 ON	1,2 ON	3 ON	1,3 ON	2,3 ON	1,2,3 ON	4 ON	1,4 ON	2,4 ON	1,2,4,5 ON				
12PCS	1,5 ON	2 ON	1,2 ON	3 ON	1,3 ON	2,3 ON	1,2,3 ON	4 ON	1,4 ON	2,4 ON	1,2,4 ON	3,4,5 ON			
13PCS	1,5 ON	2 ON	1,2 ON	3 ON	1,3 ON	2,3 ON	1,2,3 ON	4 ON	1,4 ON	2,4 ON	1,2,4 ON	3,4 ON	1,3,4,5 ON		
14PCS	1,5 ON	2 ON	1,2 ON	3 ON	1,3 ON	2,3 ON	1,2,3 ON	4 ON	1,4 ON	2,4 ON	1,2,4 ON	3,4 ON	1,3,4 ON	2,3,4,5 ON	
15PCS	1,5 ON	2 ON	1,2 ON	3 ON	1,3 ON	2,3 ON	1,2,3 ON	4 ON	1,4 ON	2,4 ON	1,2,4 ON	3,4 ON	1,3,4 ON	2,3,4 ON	1,2,3,4,5 ON

8.2.2 DIP Switch Setting Example



Example of three batteries in parallel

8.3 Switch On/Off

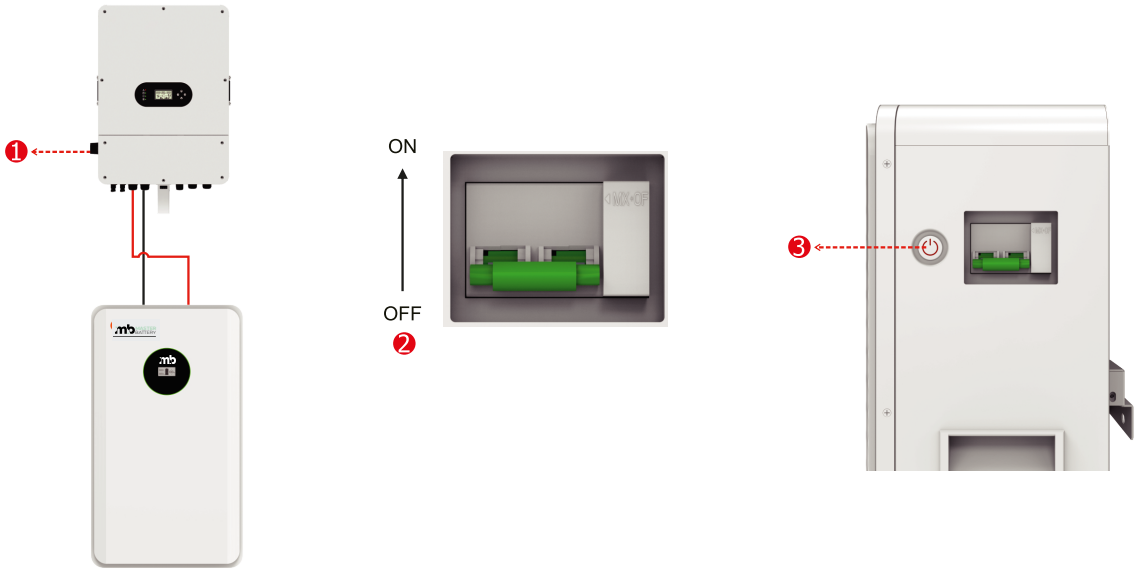
Power on steps:

Step 1: Turn on the inverter ❶;

Step 2: Turn on the battery breaker ❷ ("OFF" to the "ON");

Step 3: Press the battery switch button ❸.

If the batteries are connected in parallel, turning on any one of them will turn on all the others.



Power down steps:

Step 1: Turn off the inverter ❶;

Step 2: Press and hold the battery switch button for 3 seconds ❷;

Step 3: Disconnect the breaker of the battery ❸ ("ON" to "OFF").

If the batteries are connected in parallel, turning off any one of them will turn off all the others.



9. Network Configuration

For the best user experience, we recommend installing the app to connect and configure the device. The app lets you monitor real-time system data and view total energy generation, daily output energy, power-generation revenue, and carbon-emission reductions. It also sends instant alerts for system anomalies, providing a clear overview of plant operation. Once the device is online, remote operation and one-click repair requests are available, enabling intelligent management, maximizing power-generation revenue, and extending equipment service life.

9.1 Download the App

Please use your mobile phone to scan the QR code below and download/install the application.

9.2 App Operating Guide (SOP)

Scan the QR code to view the complete operating tutorial, or visit the link below in your computer browser to quickly learn how to use the following functions:

Feature overview, user registration, power plant creation, device networking configuration, home/ power plant interface, service center.

10. Maintenance and Troubleshooting

10.1 Storage

- Do not expose battery to open flame.
- Do not place the product under direct sunlight.
- Do not place the product near flammable materials. It may lead to fire or explosion in case of accident.
- Store in a cool and dry place with ample ventilation.
- Store the product on a zzt surface.
- Store the product out of reach of children and animals.
- Do not damage the unit by dropping, deforming, impacting, cutting or penetrating with a sharp object.
- It may cause leakage of electrolyte or fire.
- Do not touch any liquid spilled from the product. There is a risk of electric shock or damage to skin.
- Always handle the battery wearing the insulated gloves.
- Do not step on the product or place any foreign objects on it. This can result in damage
- Do not charge or discharge damaged battery.

10.2 Maintenance Troubleshooting

10.2.1 Analysis and Treatment of Common Faults

Item	Fault phenomenon	Reason analysis	Solution
1	Unable to communicate with the inverter	The wrong communication cable was used, or the battery DIP switch settings are incorrect.	Before connecting the battery to the inverter, set the battery DIP switches correctly according to the DIP switch table.After setting the DIP switches, restart the battery to activate the DIP, then use the correct communication cable to connect the battery and the inverter.
2	Battery does not fully charge	The charging voltage set on the inverter is too low	Set the charging voltage on the inverter according to the recommended value in the battery manual
3	Inaccurate SOC display	The battery's SOC has not been calibrated	The SOC will automatically calibrate after one full charge cycle. First, discharge the battery to 0%, then charge it to 100%.
4	High current charging & discharging causes output cutoff	The charging & discharging current set on the inverter is too high	Set the charging & discharging current on the inverter according to the recommended values in the battery manual

Item	Fault phenomenon	Reason analysis	Solution
5	Battery output is interrupted due to high current during charging and discharging	The charging and discharging current settings on the inverter are too high	Set the charging and discharging current on the inverter according to the recommendations in the battery manual
6	When multiple batteries are connected in parallel, battery data on the inverter is missing or incorrect.	The parallel connection of the batteries is not set up correctly	1.Check the communication cables between the batteries 2.Check whether the battery DIP switches are set in the correct sequence
7	The battery indicates it is charging, but the SOC does not change.	The ambient temperature is too low, preventing the battery from charging.	Charge the battery in an indoor environment that meets the operating temperature range specified in the manual

11. Battery recovery

Aluminum, copper, lithium, iron, and other metal materials are extracted from discarded LiFePO4 batteries using an advanced hydrometallurgical process, achieving a comprehensive recovery efficiency of up to 80%. The detailed process steps are outlined as follows.

11.1 Recovery process and steps of cathode materials

The aluminum foil used as collector is an amphoteric metal. Initially, it is dissolved in a NaOH alkaline solution, allowing aluminum to enter the solution as $NaAlO_2$. After filtration, the filtrate is neutralized with a sulfuric acid solution, resulting in the precipitation of $Al(OH)_3$. When the pH exceeds 9.0, the majority of the aluminum precipitates, and the resulting $Al(OH)_3$ can achieve chemical-grade purity upon analysis.

The filter residue is treated with sulfuric acid and hydrogen peroxide, allowing lithium iron phosphate to dissolve into the solution as $Fe_2(SO_4)_3$ and Li_2SO_4, while separating it from carbon black and the carbon coating on lithium iron phosphate. After filtration, the pH of the filtrate is adjusted using NaOH and ammonia solution. Iron is first precipitated as $Fe(OH)_3$, followed by the precipitation of the remaining solution using a saturated Na_2CO_3 solution at 90°C.

11.2 Recovery of anode materials

The recovery process for anode materials is relatively straightforward. After separating the anode plates, the copper purity exceeds 99%, making it suitable for further refining into electrolytic copper.

11.3 Recovery of diaphragm

The diaphragm material is primarily non-hazardous and holds no recycling value.

11.4 List of recycling equipment

Automatic dismantling machine, pulverizes, wet gold pool, etc.

12. Appendix I

Model	UE-51.2LI206WM
Nominal Energy	10.5kWh
Battery Type	LiFePO4
Nominal Voltage	51.2V
Operating Voltage	44.8-57.6V
Max. Charge/Discharge Current[1]	Charge 160A Discharge 160A
Peak Charge/Discharge Current	300A @ 15s
Max. Charge/Discharge Power	Charge 8200W Discharge 8200W
Depth of Discharge(DOD)	95%
Scalability	Up to 15 units in parallel
Communication	CAN2.0, RS485,WIFI,Bluetooth
Protection Level	IP21
Cycle Life	≥6000@ 25℃
Operating Temperature	Charge 0~55℃ Discharge -20~55 ℃
Display	LCD+LED
Installation	Wall-Mounted, Floor-Mounted
Protection	BMS, Fuse, Breaker, MX+OF
Warranty[2]	10 Years
Net Weight	87kg
Gross Weight	98kg
Product Dimension	787×450×249mm
Package Dimension	900×568×344mm
[1] The current is affected by temperature and SOC.	
[2] Condition apply,refer to Master Battery Warranty Letter.	

*In the absence of communication, please follow the recommended settings in the table below.

Setting	UE-51.2LI206WM
Max. Charging Voltage	57.6V
Floating Charging Voltage	57.6V
Max. Charging Current	160A*N
Cut-off Voltage	44.8V

Notes: "N" means the number of battery packs connected in parallel.