

Lithium Iron Phosphate (LFP)
Reefmagic RMC1000(-Pro)/RMB70100(-Pro)
Energy Storage System
Quick Start Guide

Information Version: 1.0
5PMPA08-20095

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User Manual

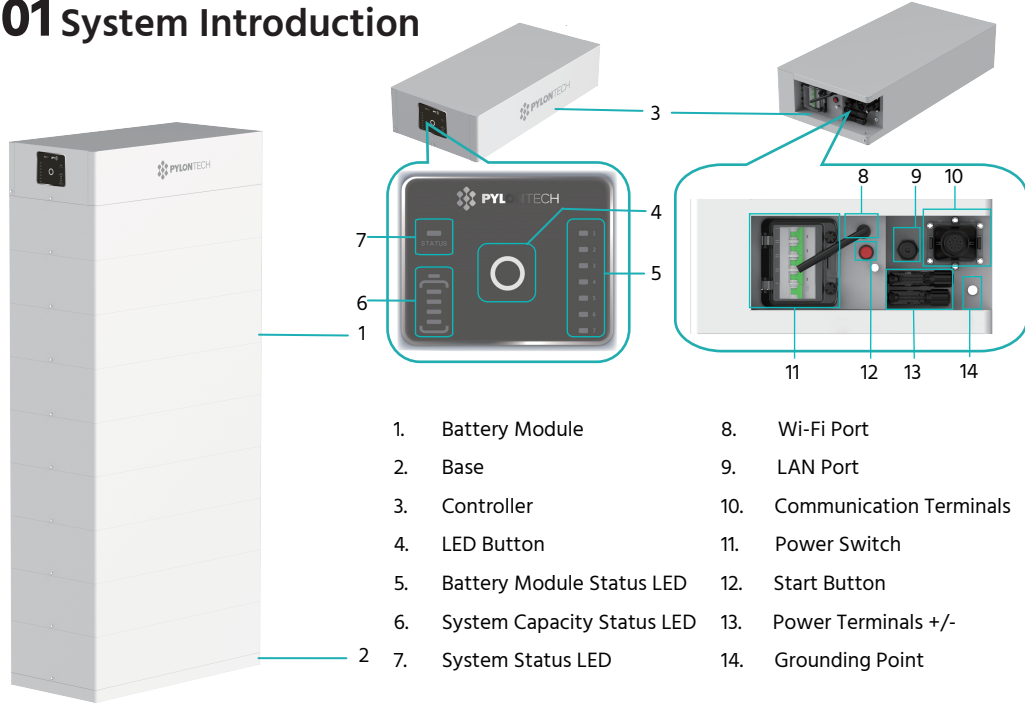


Installation Video

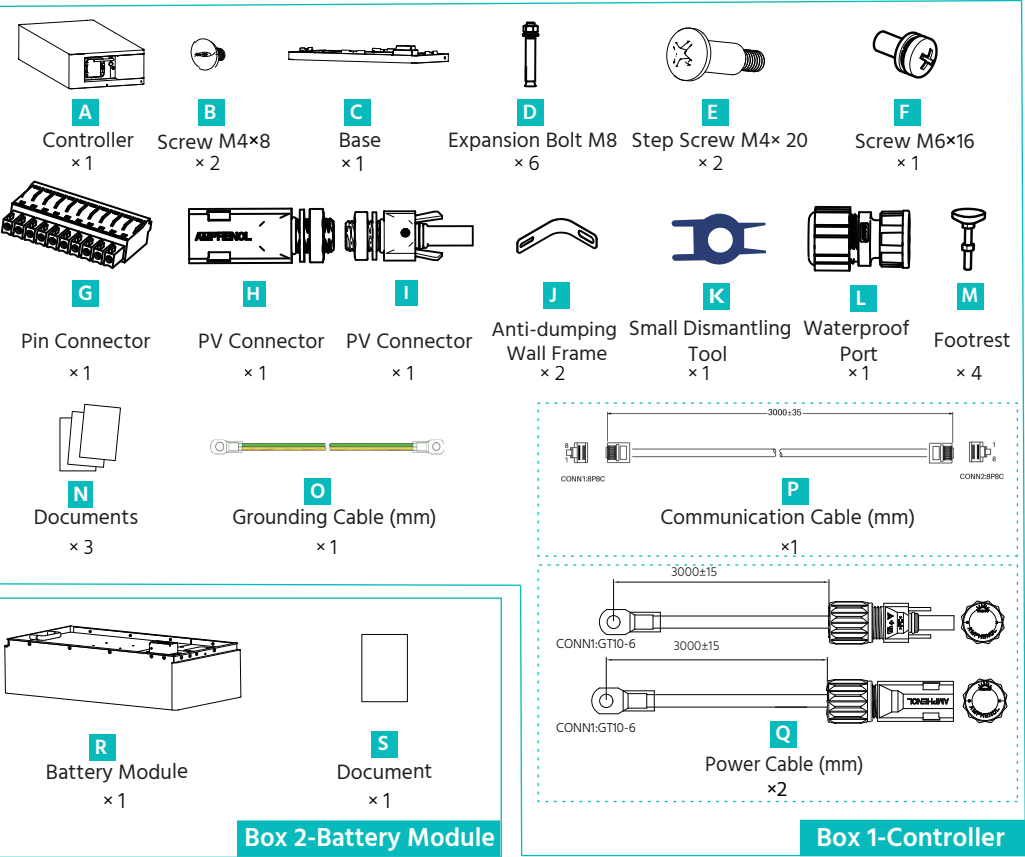
WARNING

Warning: Read the quick guide for product information and safety precautions before installing the product. The personal injury or property damage caused by failure to use the product in accordance with the this document and the user manual is not covered by the product warranty.

01 System Introduction



02 Packing List



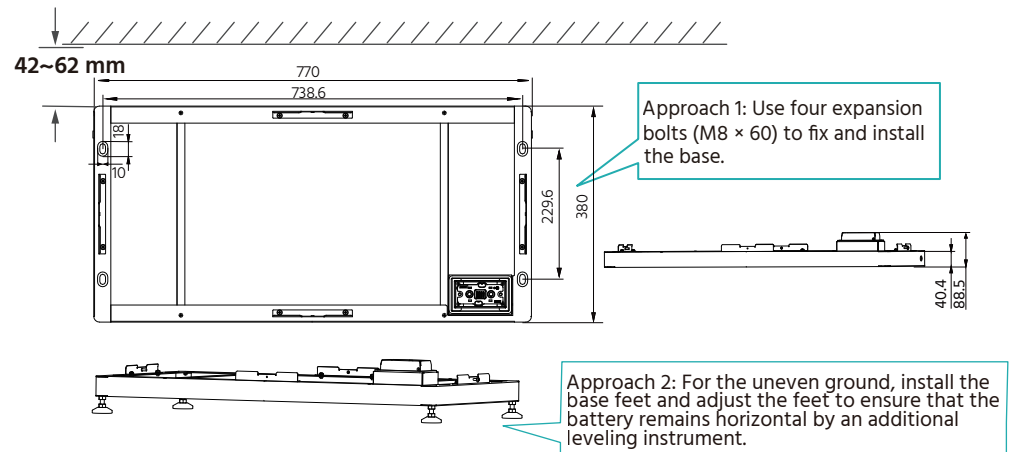
Use properly insulated tools to prevent accidental electric shock or short circuits. If insulated tools are not available, cover the entire exposed metal surfaces with available insulated alternatives, except their tips, with electrical tape.
At least 2 personnel for the installation is recommended.

03 Installation Requirements

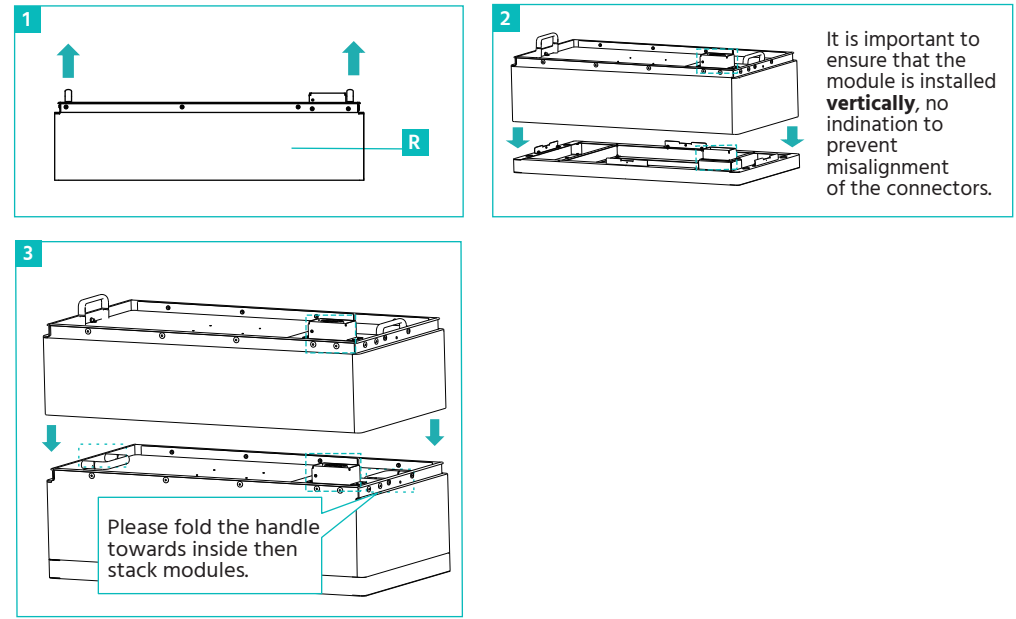
Working temperature (°C)	-10~55	Humidity (%RH)	0~95
Optimum temperature (°C)	18~28	Installation foundation	load capacity of 500kg
Min. clearance between battery towers (m)	0.3	Environment	Avoid frost or direct sunlight
Min. clearance to heat source (m)	2		Not be immersed in water

04 Base Installation

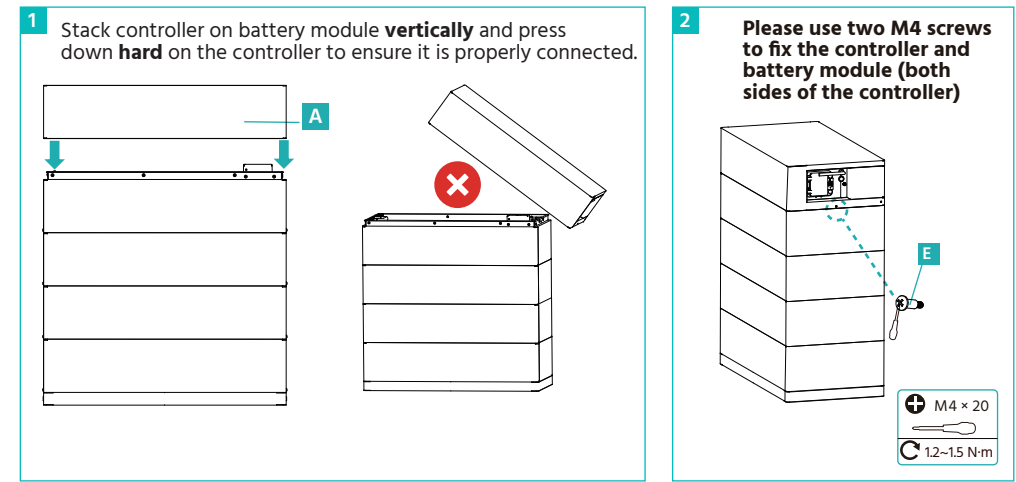
Two approaches available for this installation. Please put aside 42mm to 62mm between base and wall.



05 Base and Battery Module Installation



06 Battery Module and Controller Installation



07 Anti-Toppling Brackets Installation

Please refer to the following steps anti-toppling installation.

1 Please put aside 42mm to 62mm between base and wall.

2 Note: Fit the brackets on both sides of BMS.

3 Mark the point on both sides.

4 Drill two holes in the wall with a drilling tool.

5 Fit the brackets across the M8 expansion bolts on both sides

6 Spring washer, 8 mm Flat gasket, M8 Nut, 12-13 N.m.

7

08 Grounding Connection

1 M3

2 F

M6 x 16, 6.0~7.7 N.m

Grounding Cable

Please check that the ground connection meets local requirements. Ensure all connections are secure.

09 Power Cable Connection

Q Power Cable

Inverter

BAT+, BAT-

10 Communication Connector Assembly and Connection

1 Please firstly remove the communication protection cover from the base by loosening two screws.

2 Unscrew the plastic nut from the cover.

3 Take out the rubber plugs from the sealing rubber gasket, then remove the sealing rubber gasket from the cover.

4 Insert the cable into the hole and get it stuck in the sealing rubber gasket.

Attention: the direction of the sealing rubber gasket. Please do not install in this way.

5 CAN and RS485 ports are used for inverter connection. Link 0 and Link 1 ports are used for multi stacks connection. LAN port is used for network connection.

Definitions of RJ45 Port PIN

No.	CAN	RS485
1	---	---
2	GND	---
3	---	---
4	CANH	---
5	CANL	---
6	---	---
7	---	RS485A
8	---	RS485B

6 Expansion interface (Optional)

Follow the instructions of Pin 1~10 Assignment Table, and insert the cable terminal into the corresponding pin of the terminal plug.

* You can use a screwdriver as shown to press the button.

Pin 1~10 Assignment Table

1	2	3	4	5	6	7	8	9	10
-	+	GND	H	L	IN+	IN-	TX	RX	GND
E-Stop			CAN			For SMA			RS232

See Section 2.3.3 Control Module interface Panel in user manual for more details.

7 Please fix the communication protection cover with screws and insert rubber plugs to EMPTY holes

8 Tighten the plastic nut onto the cover.

9 Please secure the cover with the M3 screw.

11 Power on Procedure

Step 1: Check the grounding is connected.
Step 2: Check all the cables are connected correctly.
Step 3: Turn on the switch for battery on the inverter or the switch between inverter and battery system (if applicable). If possible, turn on AC or PV power source to wake up the inverter.
Step 4: Open the protection cover of Power Switch on the controller (BMS). And turn on Power Switch.

Step 5: Press Start Button for at least 5 seconds or until buzzer rings. It will take 10-30 seconds for battery self-checking.

All above-mentioned introduction is for single stack use. If you have multi-stacks system to be installed, please see the user manual for detailed guidance.

NOTE:
If after the self-checking for 30 seconds, the Status LED becomes solid orange, but SOC LED becomes solid blue, this means there is no communication between the battery and the inverter.

Possible Reason	Solution
Modules do not stack properly (both sides of controller) with two M4 screws.	Follow the steps of <06 Battery Module and Controller Installation> in page 2 to re-stack the controller and battery module.
Inverter not turned on	Press the Start Button for at least 10 seconds, till the Status LED lighting Blue and fast flashing. After the inverter is started and communication is set, the BMS is ready for work.



12 Battery Wi-Fi Setting

For network connection, please scan the QR code below to get Wi-Fi connection Instructions or contact Pylontech service team <service@pylontech.com.cn> for further questions.

PylontechPro	
Pylontech	
The SN and Password of the wifi logger can be found on the battery control module	
CAUTION	
First use	Please charge all battery modules to 100% SOC.
Maintenance	Due to the natural self-discharge of LFP batteries, extended storage without recharging may lead to deep discharge, causing irreversible cell degradation. It is recommended that the battery be fully charged at least every 3 months to maintain the battery. If the battery is stored without charging for long term, It is required to charge the battery over 90% SOC. In such conditions, the battery can be stored for up to 6 months.
Capacity expansion	Before adding new module to the old system, please ensure that all old battery modules are charged to 100% SOC, and the new battery module also fully charged. All battery modules should have the same voltage level.