CORE Series Battery-QUICK START GUIDE

Valid for Power CORE 4.8/ 7.2/ 9.6/ 12.0

Energy CORE 9.6/ 12.8/ 16.0/ 19.2/ 22.4/ 25.6

Please note that this is a Quick Start Guide only, which is a shortened assistance for the installation of the Power-CORE and Energy-CORE. It does not replace the Operating Manual, which must be read and understood completely before installation.
Please download and view it on this website: http://enershare.cn.

Attention: High Voltage! Improper handling can pose a risk of electric shock and damage.

This guide and procedures described herein are intended for use by skilled workers only.

A skilled worker is defined as a trained and qualified electrician or installer who has all of the following skills and experience:

- Knowledge of the functional principles and operation of on-grid systems.
- Knowledge of the dangers and risks associated with installing and using electrical devices and acceptable mitigation methods.
- Knowledge of the installation of electrical devices.
- Knowledge of and adherence to this guide, the complete installation manual and all safety precautions and best practices. In order to ensure the normal operation of the Enershare Battery System, please be sure to update the firmware to the latest version and finish the configuration on CORE Series LCD display in accordance with this document.

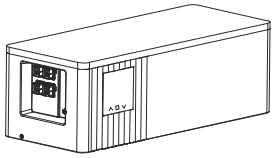
If there are errors generated during the commissioning or operation, please read the Service Manual alongside this document, or digital version on the website.

If the battery system doesn't start at all, please contact Enershare service team within 48 hours. Otherwise, the battery could be permanently damaged.

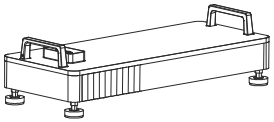
Please do not stack up batteries without protective packages when storing or handling batteries, except for installation.

For more detailed instructions, scan the QR code to visit our website.

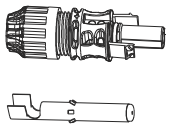
1. Scope of delivery



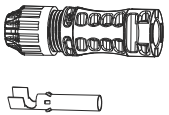
1-BMS



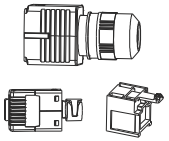
1-Base



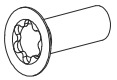
1-Female power cable coupler



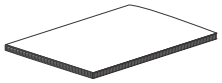
1-Male power cable coupler



4-Network cable coupler



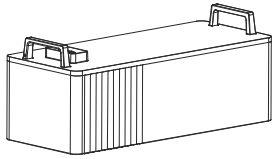
4-Screw (M4×16)



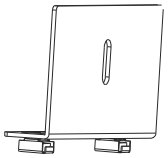
1-Documents

1-Drilling template

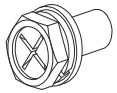
2-Power cable connector unlock protection sleeve



1-Battery stack



1-Hanger



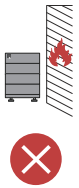
2-Screw (M6×16)

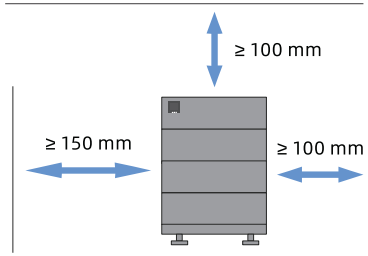
2. Installation Location

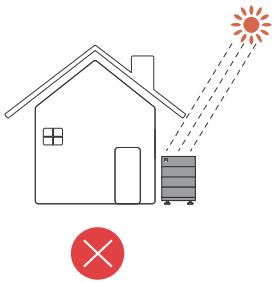
Max +55℃

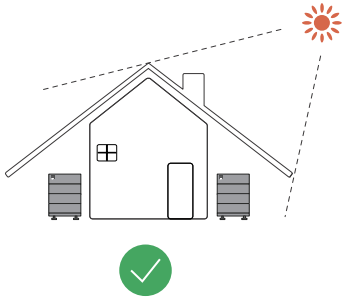
Min -10℃

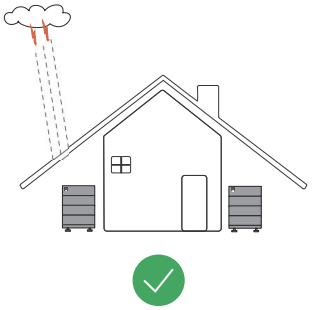
RH. +5%~ +95%



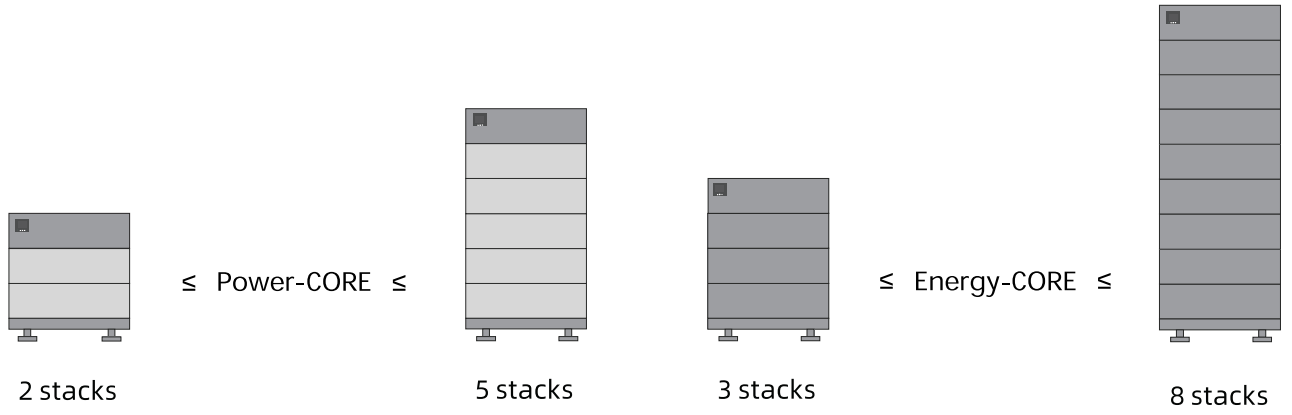


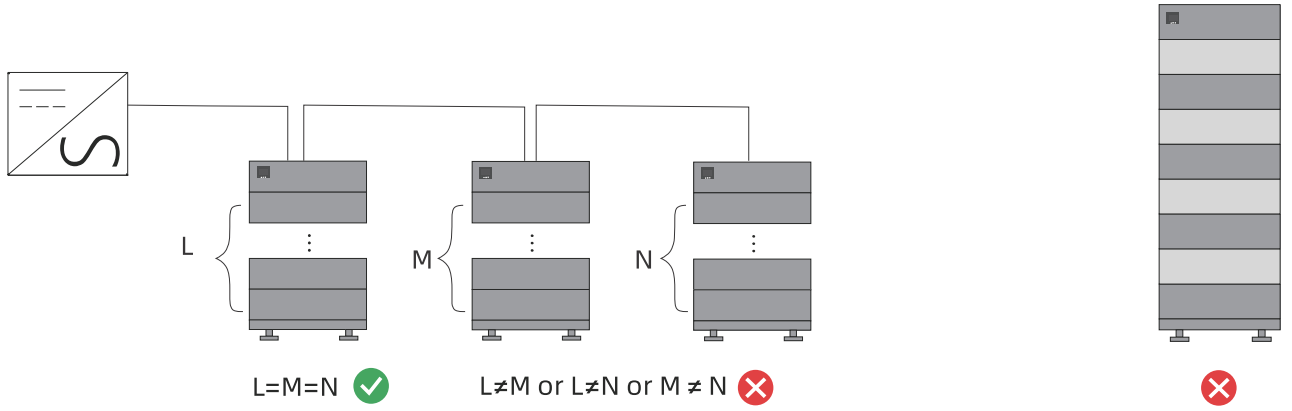


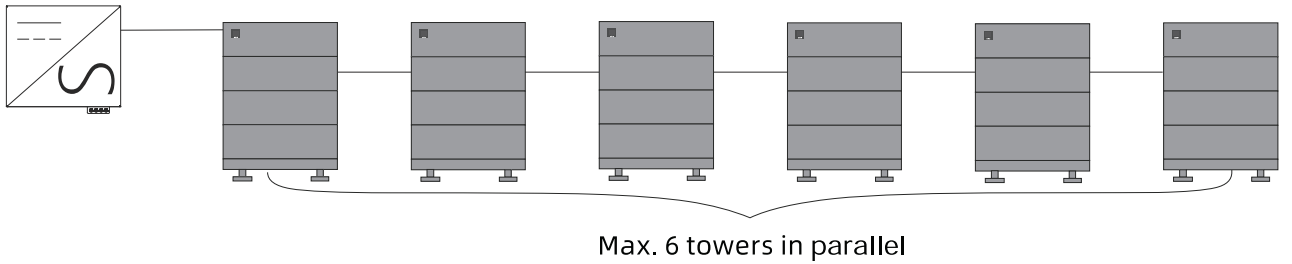




3. Installation Limitation

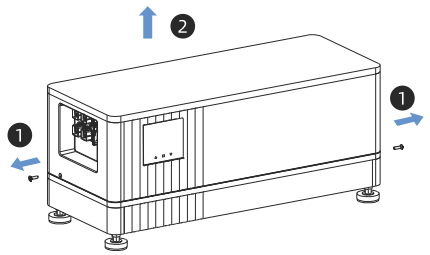






4. Installation

1



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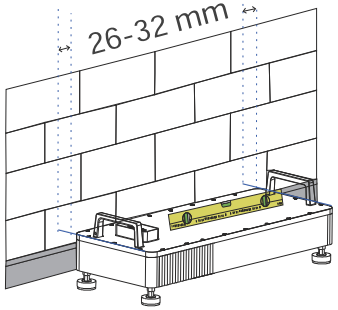

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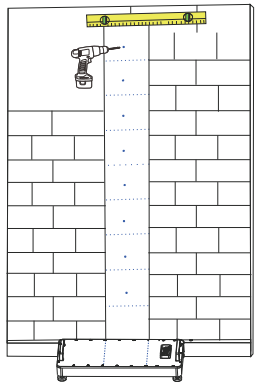

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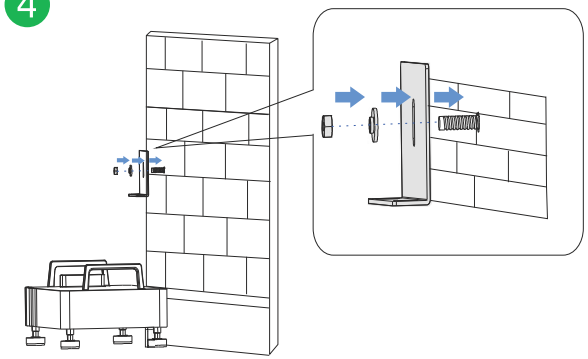

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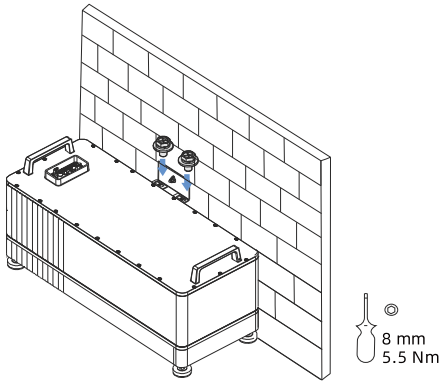

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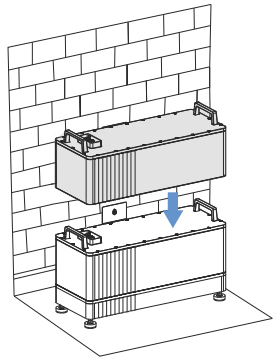

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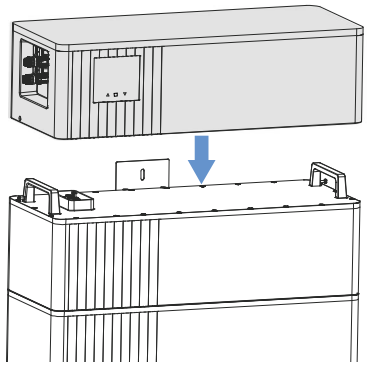

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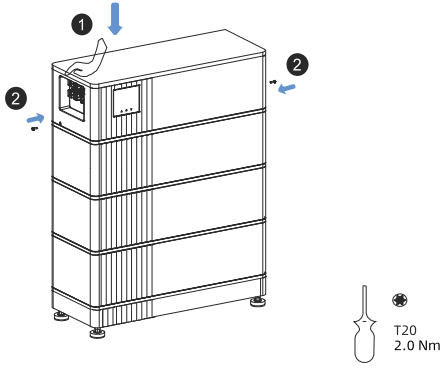
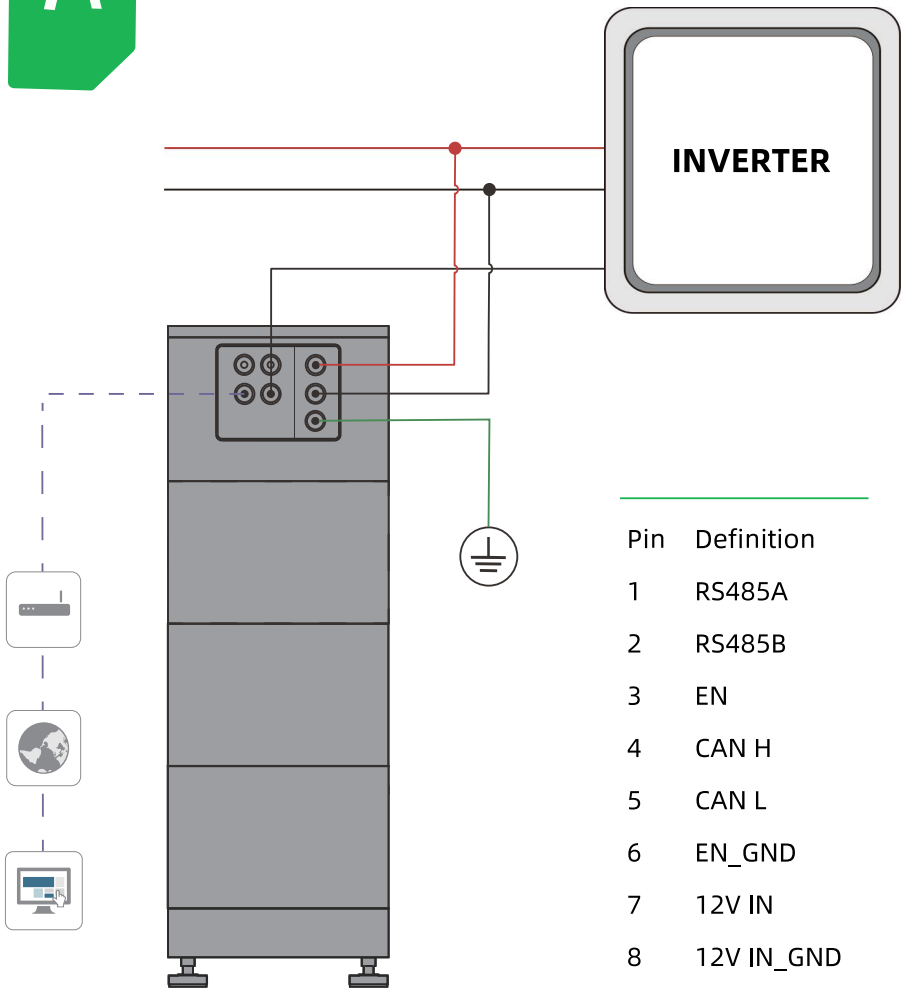


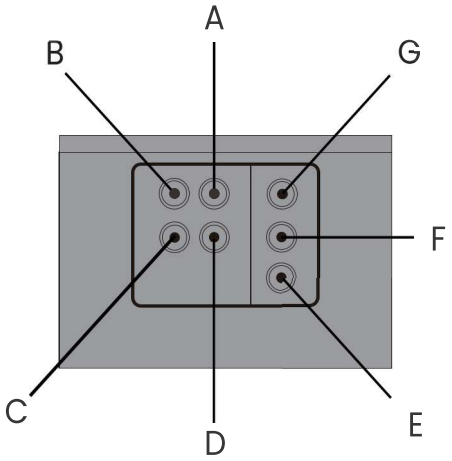
5. Connection Diagram

Single Tower

A



Pin	Definition
1	RS485A
2	RS485B
3	EN
4	CAN H
5	CAN L
6	EN_GND
7	12V IN
8	12V IN_GND

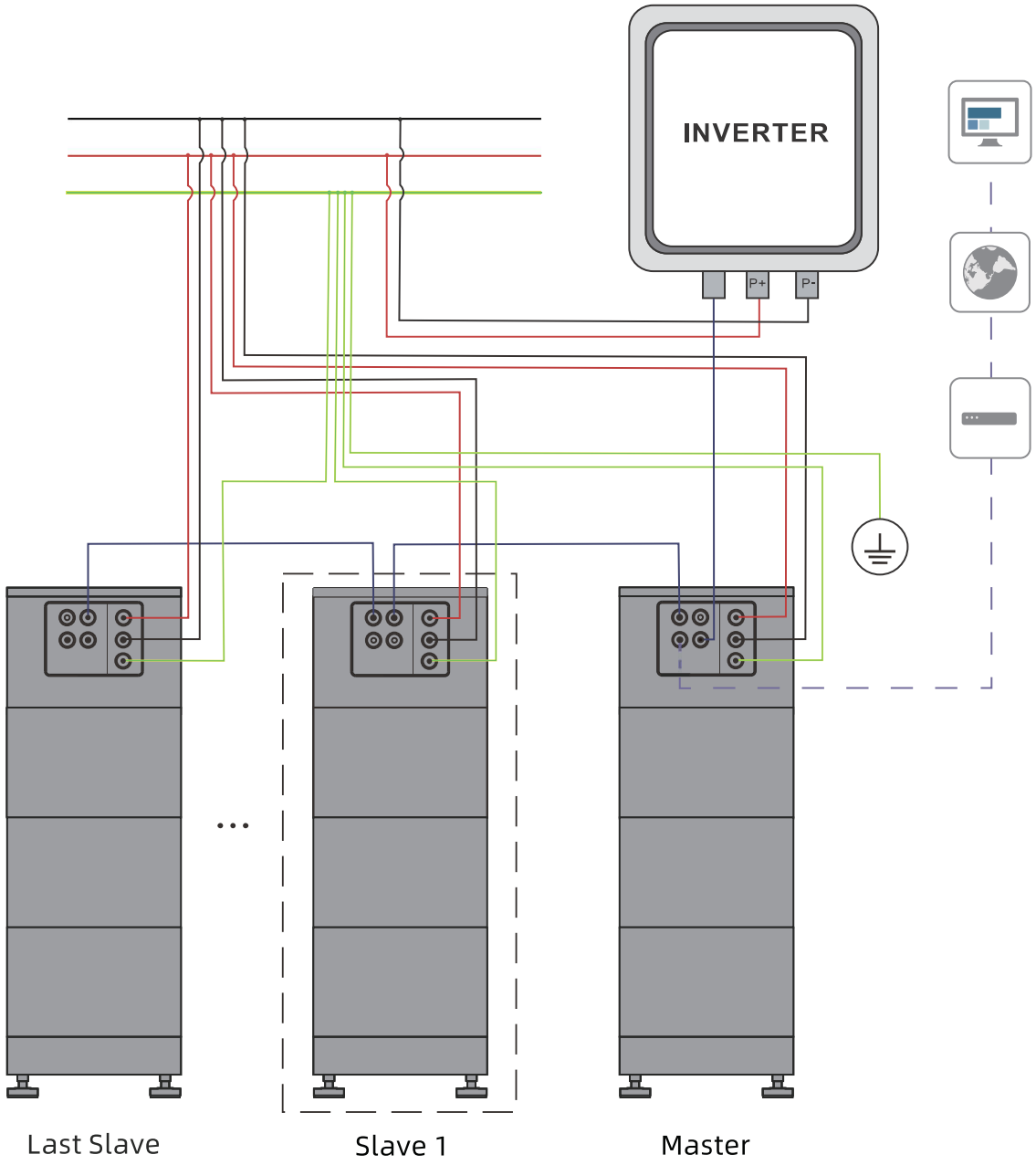


A	IN	IN port for parallel tower connection
B	OUT	OUT port for parallel tower connection
C	ETH	Network port for connecting a router or network switch
D	INV	Port for connecting an inverter data cable
E	PE	Grounding cable connecting point
F	P-	DC- to inverter
G	P+	DC+ to inverter

5. Connection Diagram

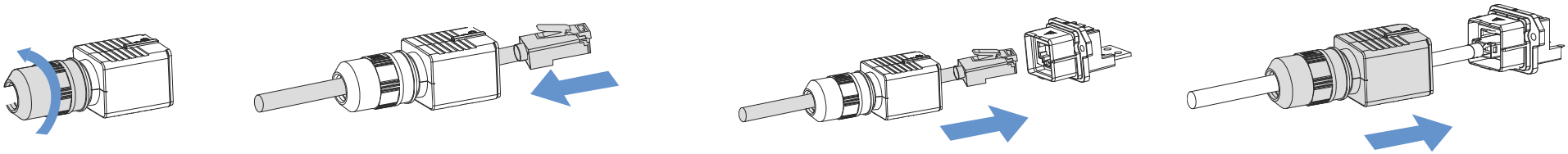
Multiple Towers

B

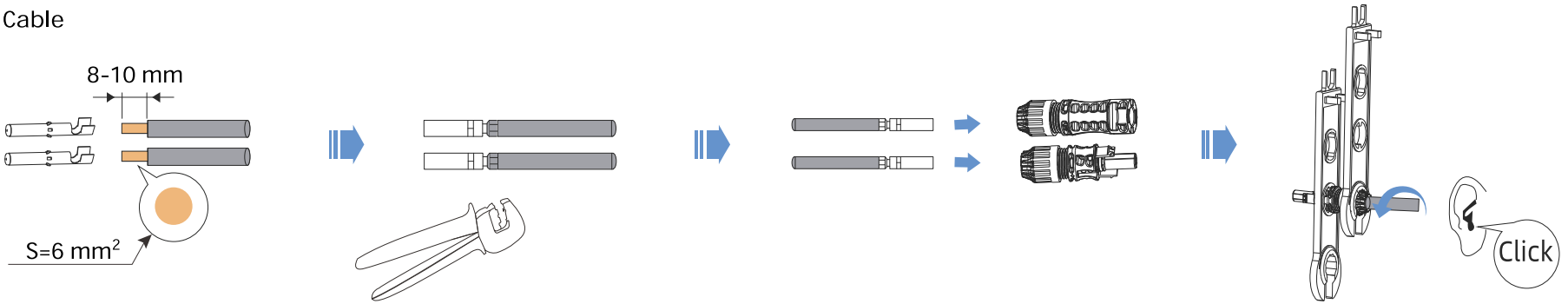


6. Cable Preparation

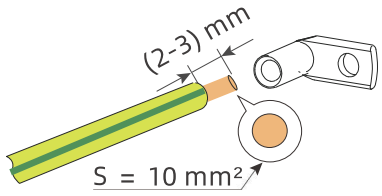
6.1 Network Cable



6.2 DC Cable

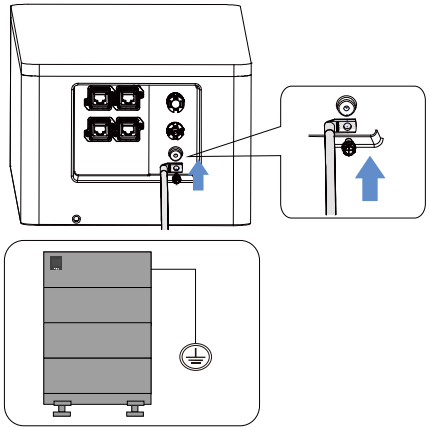


6.3 PE Cable

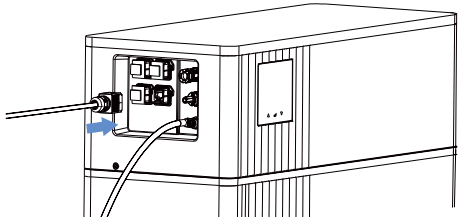


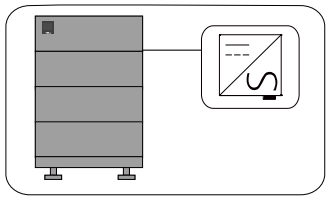
7. Electrical Connection

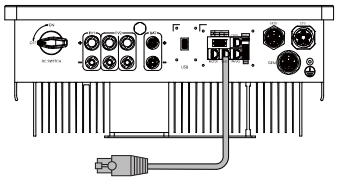
7.1 PE Connection

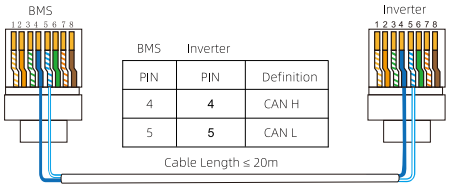


7.2 Data Cable Connection





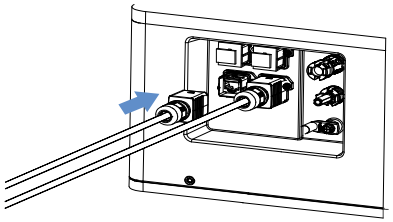


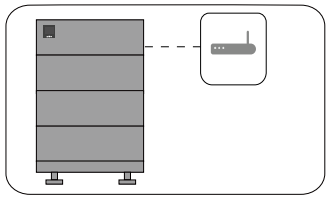


BMS PIN	Inverter PIN	Definition
4	4	CAN H
5	5	CAN L

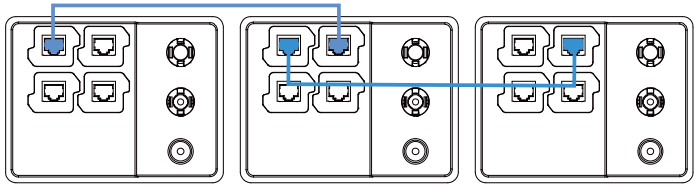
Cable Length ≤ 20m

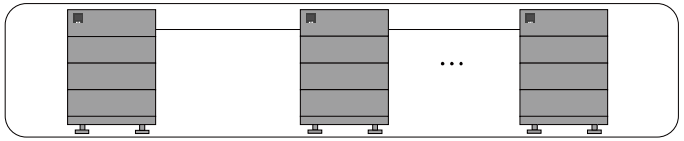
7.3 Router Connection



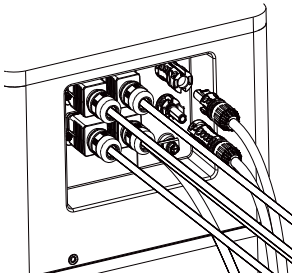


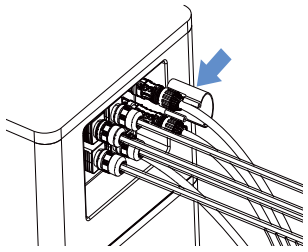
7.4 Parallel Connection

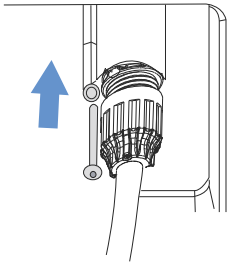




7.5 DC Connection

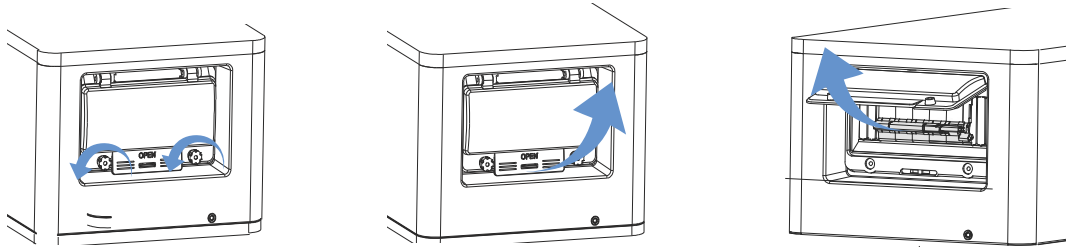




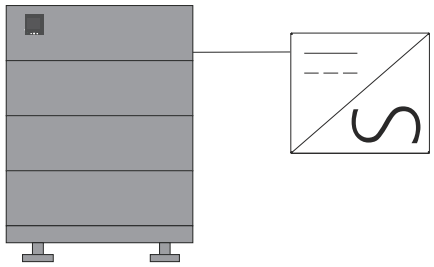


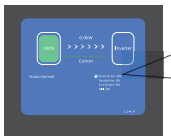
8. Configuration

8.1 Switch on the Battery



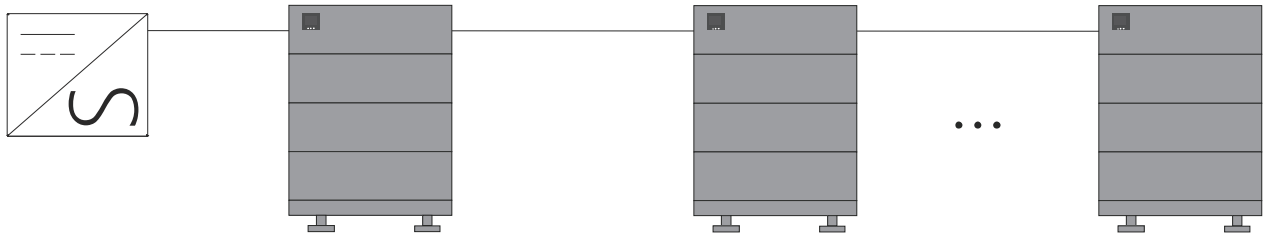
8.2 Single Tower Configuration





Terminal Res: ON
Parallel Res: ON
End System: ON
Default Set: ON

8.3 Multiple Towers Configuration



Master

Terminal Res: ON
Parallel Res: ON
End System: OFF
Default Set: ON

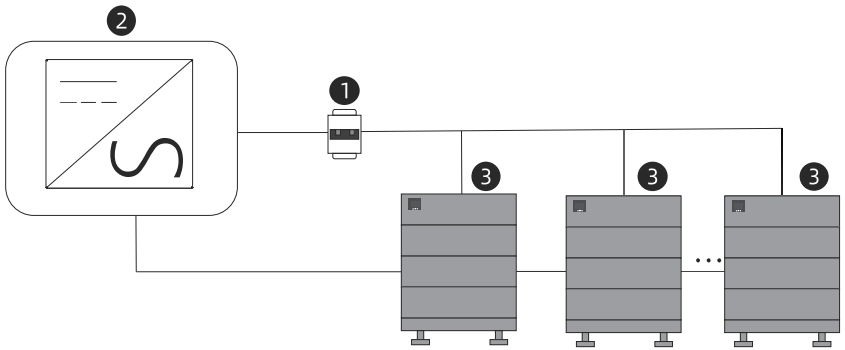
Slave 1

Terminal Res: ON
Parallel Res: OFF
End System: OFF
Default Set: ON

Last Slave

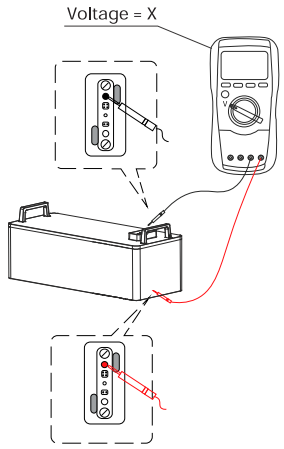
Terminal Res: ON
Parallel Res: ON
End System: ON
Default Set: ON

9. Switch ON/OFF Procedure



10. Extension

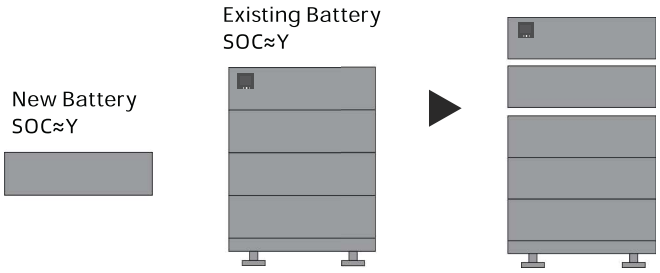
Note: Within 5 days before extension, it is recommended to fully charge the existing battery system to SOC 100% at least once.



1. Measure the voltage of the new battery stack, get a value (X).

	Voltage(X) / V	SOC (Y)
Energy-CORE	X<63.6	0~5%
	63.6≤X<64.48	5~10%
	64.48≤X<65	10~15%
	65≤X<65.54	15~20%
	65.54≤X<65.96	20~25%
	65.96≤X<66.1	25~30%
Power-CORE	X<99.84	0~5%
	99.84≤X<103.136	5~10%
	103.136≤X<103.68	10~15%
	103.68≤X<104.512	15~20%
	104.512≤X<105.28	20~25%
	105.28≤X<105.664	25~30%

2. Refer to the above table to find out the SOC (Y) corresponding to the X.



3. Charge or discharge the existing battery system until the SOC is almost equal to Y, and then add the new battery stack. Do not forget to do the configuration after that.

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