PYLONTECH



Force H3X Energy Storage System

Quick Start Guide

(FH3X-3.6K/5K/6K/8K-HY-1P-5/10/15/20)

Information Version: 1.11

5PMPA08-20017

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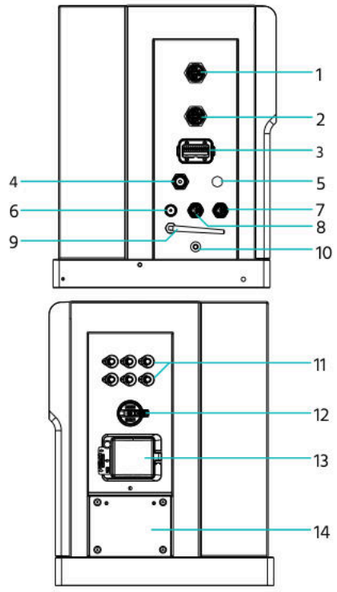
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⚠WARNING

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





1. AC Grid Terminal
2. Back-up Terminal
3. COM Terminal
4. CONTROL Port
5. Ventilation Valve
6. Start
7. LAN Port
8. EMS Port
9. WIFI
10. Ground Point
11. PV Terminals
12. PV Switch
13. BAT Breaker
14. FUSE Case

02 Packing List

Box 1-Power Controller



A
Power Controller
× 1



B
Base
× 1



C
Anti-toppling Bracket
× 2



D
Lifting Handle
× 2



E
Footrest
× 4

F
Metal Bracket
× 6



G
Multi-function Terminal
× 1

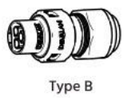


H
CT
× 1



Type A

or



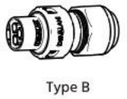
Type B

I
AC Back-up Connector
× 1



Type A

or



Type B

J
AC Grid Connector
× 1

Box 2-Battery Module



W
Battery Module
× 1



X
Document
× 1



K
PV Connector Negative
× 3



L
PV Connector Positive
× 3



M
Heat Pump Connector
× 1



N
RJ45 Connector
× 2



O
Documents
× 2



P
Ground Screw M6× 16
× 1



Q
Screw M4×8
× 12

R
Expansion Bolt M8
× 6



S
Step Screw M4 ×22
× 2

T
Hex Wrench
× 1



U
AC Unlocking Tool
× 1



V
PV Terminal Removing Tool
× 1

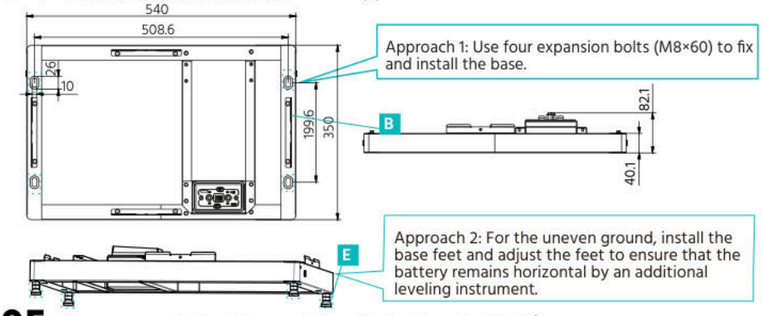
Use properly insulated tools to prevent accidental electric shock or short circuits. If insulated tools are not available, cover the entire exposed metal surfaces with available insulated alternatives, except their tips, with electrical tape.
At least 2 personnel for the installation is recommended.

03 Installation Requirements

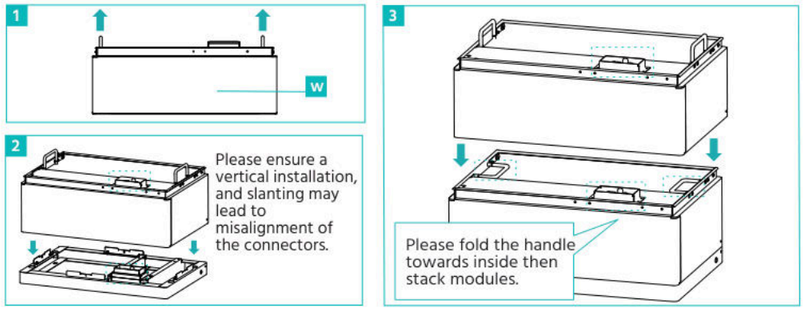
- FH3X system must not be immersed in water. The battery base cannot be exposed to rain or other water sources.
- The support surface should have sufficient load-bearing capacity to support a minimum weight of 300 kg. The system must be installed on a fixed and flat support surface.

04 Base Installation

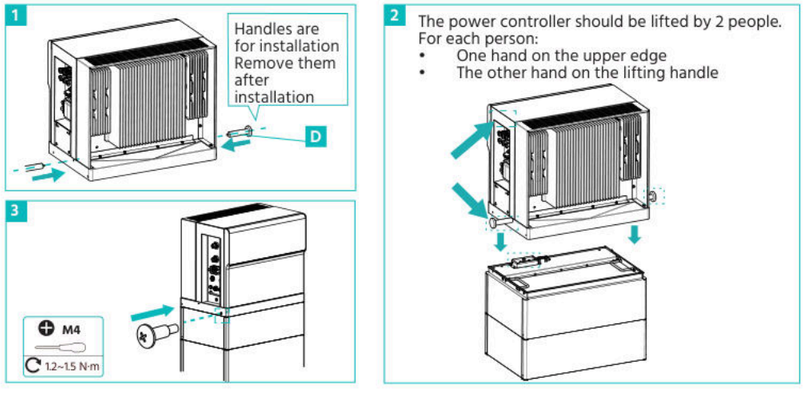
Two approaches available for this installation.



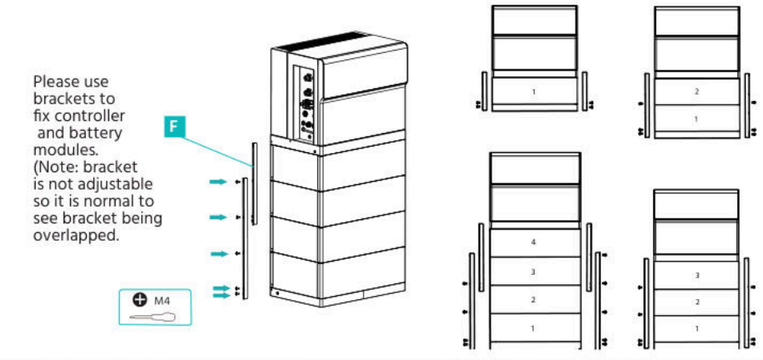
05 Base and Battery Module Installation



06 Battery Module and Power Controller Installation

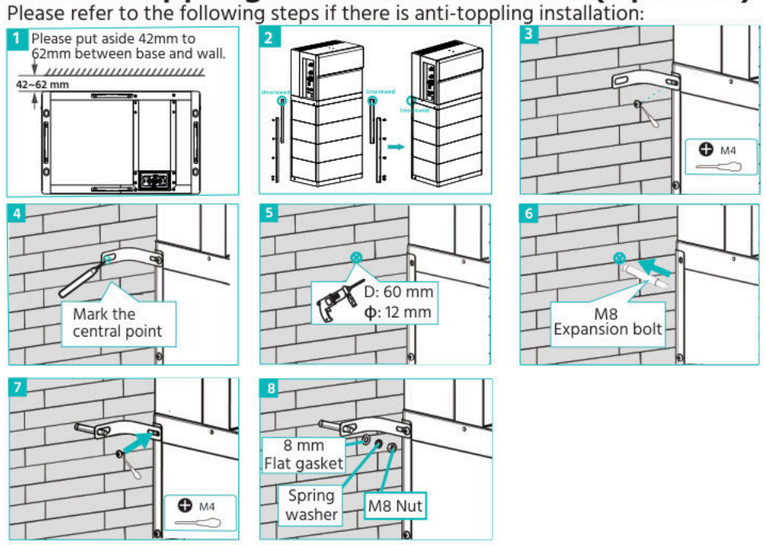


07 Metal Brackets Installation



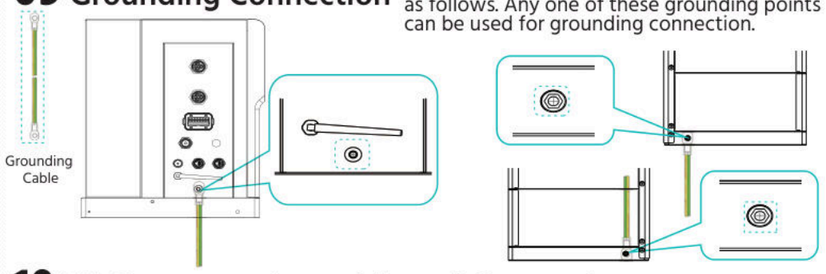
08 Anti-Toppling Brackets Installation(Optional)

Please refer to the following steps if there is anti-toppling installation:

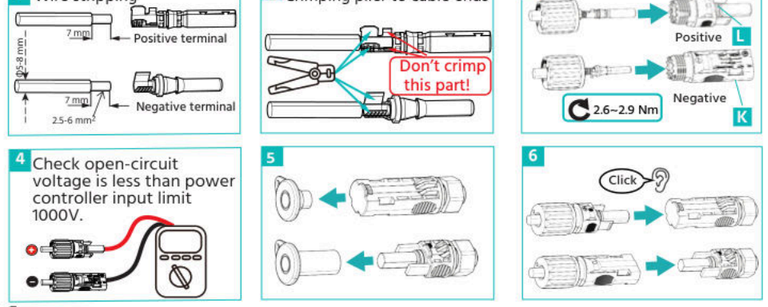


09 Grounding Connection

The system modules has 3 grounding points as follows. Any one of these grounding points can be used for grounding connection.

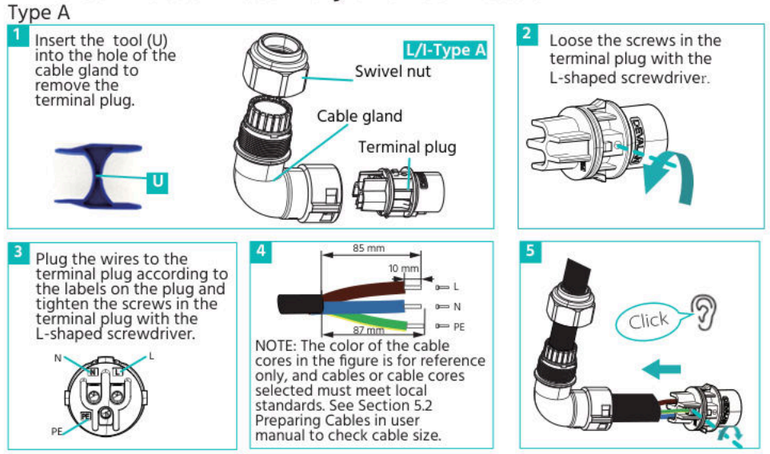


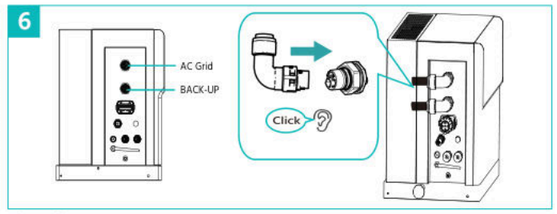
10 PV Connector Assembly and Connection



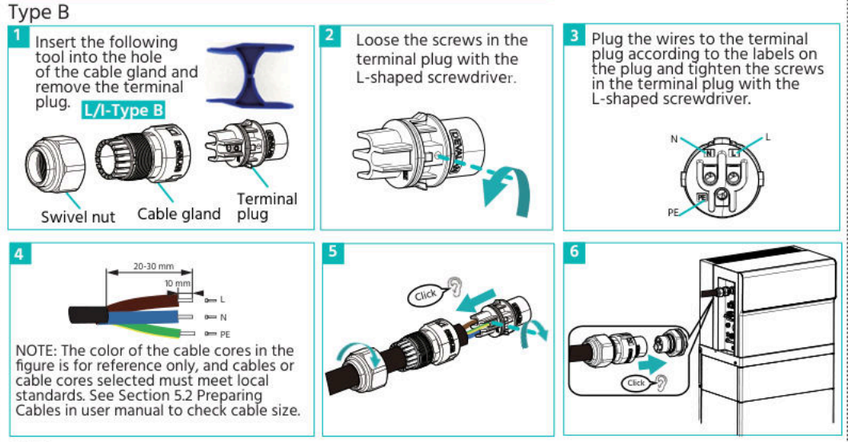
11 AC Connector Assembly and Connection

Type A



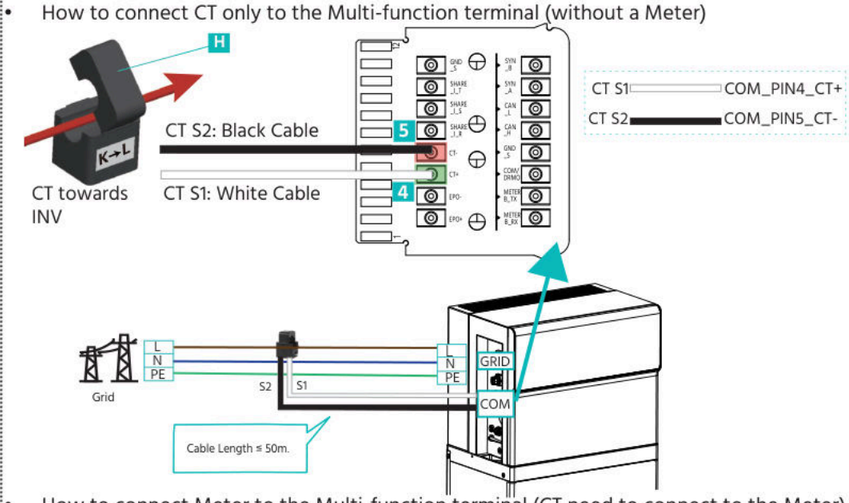


Type B

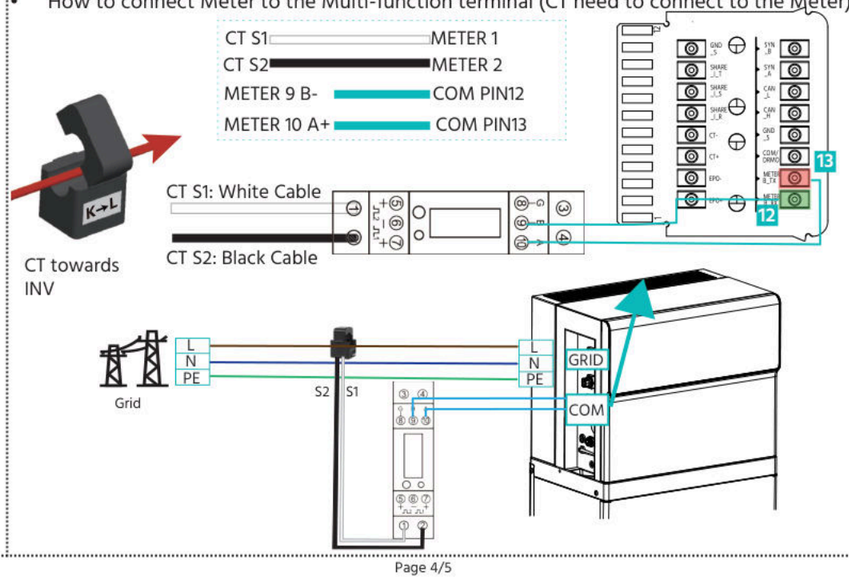


12 CT Connection

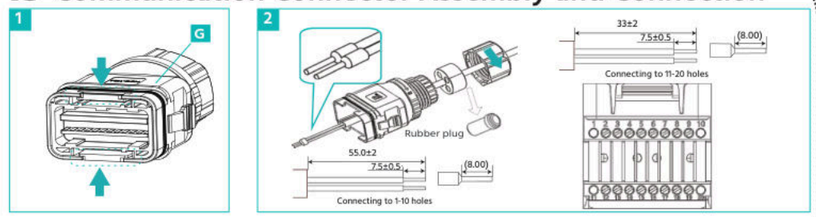
- How to connect CT only to the Multi-function terminal (without a Meter)

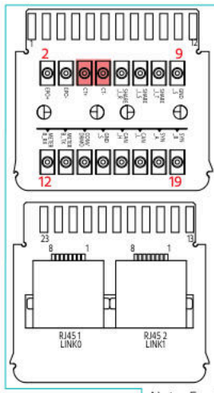


- How to connect Meter to the Multi-function terminal (CT need to connect to the Meter)



13 Communication Connector Assembly and Connection

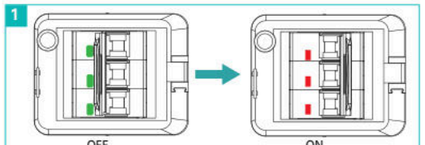




Pin	Definition	Description
Pin 2	EPO+	Emergency stop button signal, short-circuited via external switch, for manual quick stop
Pin 3	EPO-	
Pin 4	**CT+**	For communication connection to CT
Pin 5	**CT-**	
Pin 6	SHARE_I_R	For parallel connection
Pin 7	SHARE_I_S	
Pin 8	SHARE_I_T	
Pin 9	GNDS	
Pin 12	METER B_RX	For communication connection to meter (1P/3P)
Pin 13	METER B_TX	
Pin 14	DRM0	For AS4777 standard (Only DRM0 is available)
Pin 15	GNDS	
RJ45-2	LINK0	For parallel connection
RJ45-2	LINK1	For parallel connection

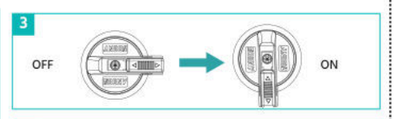
Note: For CT, S1:White
S2:Black
S1 connected to **PIN4_CT+**
S2 connected to **PIN5_CT-**
CT towards to inverter

14 System Turning On



Notice: Please Turn on the battery breaker first before switching on the grid.

2 Turn on the AC switch between FH3X and grid.



4 (Optional) Turn on the DC switch between the FH3X and the PV string if there is any.

5 Observe the LEDs to check the system status. The detailed description of LED can be found in Section 6.3 in user manual.

15 Download App and Create Plant

1 Please search PylontechPro (for distributors/installers) in the APP Store or GooglePlay to download it. Then please login with the distributed account and password.

App Store — PylontechPro

Google Play — PylontechPro, Pylon Technologies Co., Ltd.

2 After the first power up, the network of the device needs to be configured in the local config. Then create the plant in the APP or website(https://ress.pyloncloud.com).

3 For newly installed device, only operating switch on, the system will start self-testing, then works normally.

4 For customer, they need to download Pylontech APP, then register an account by themselves. After logging in, please scan the device SN, the plant will be bound to their account automatically.

App Store — Pylontech

Google Play — Pylontech, Pylon Technologies Co., Ltd.

For more details of using the APP, please refer to the APP manual.