EN 64100372

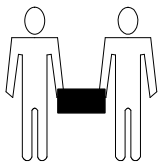
V06

QUICK INSTALLATION GUIDE

Backup Box Plus

1.0 Transport

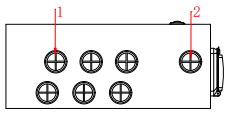
During transportation, please follow these guidelines:
1. The original packaging should be used for transportation.
2. Handle with care, choose the corresponding handling method according to the weight, and pay attention to safety.



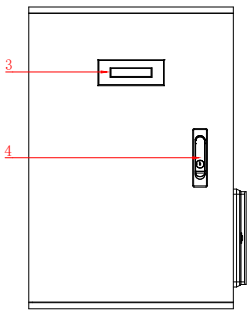
2.0 Instructions

2.1 Product Overview

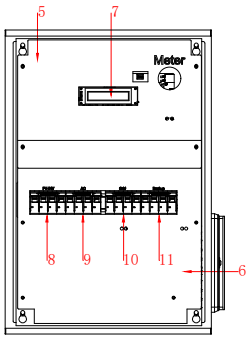
2.1.1 Interface



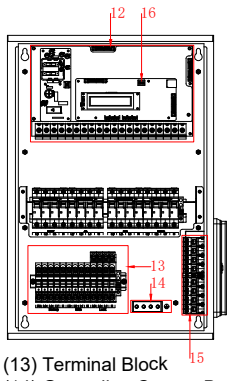
(1) Power Connection Port
(2) Communication Port
(3) LCD Screen
(4) Lock



(5) Upper Insulation Plate
(6) Lower Insulation Plate
(7) LCD Screen
(8) PV-INV Breaker

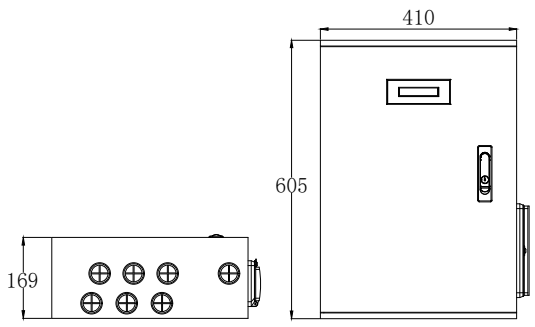


(9) AC Circuit Breaker
(10) Grid Breaker
(11) Backup Breaker
(12) Control Board



(13) Terminal Block
(14) Grounding Copper Bar
(15) Bypass Breaker
(16) DIP Switch

2.2 Dimensions

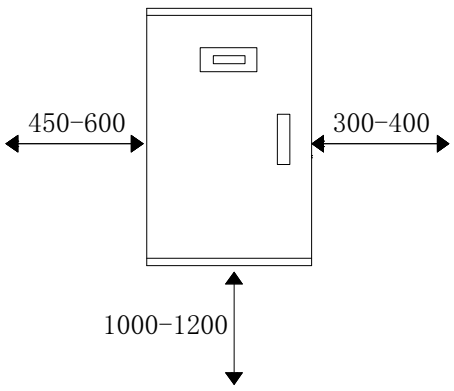


Unit: mm

2.3 Installation Space Requirements

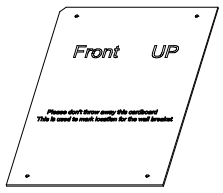
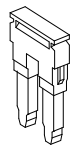
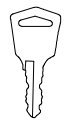
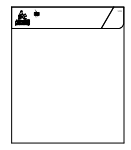
NOTE

•Reserve sufficient space around the Backup Box Plus to ensure sufficient space for installation, maintenance and heat dissipation.
•The side clearance is a recommendation which can be adjusted according to the end-users requirements and site environment.



Unit: mm

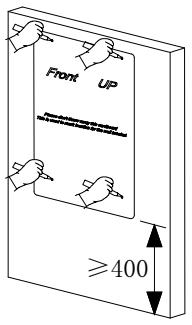
2.4 Scope of Delivery

Backup Box Plus					
					
Wall Anchor ST6*55 (×4)	Positioning Board (×1)	FBS-2-12 (×2)	Key (×2)	Flat Washer (×2)	Quick Installation Guide (×1)

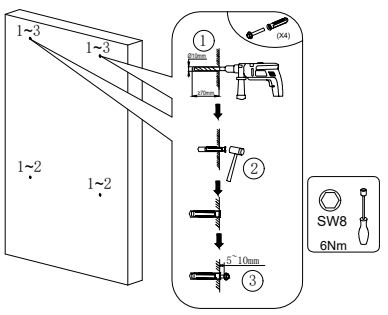
3.0 Installation

3.1 Installing the Product

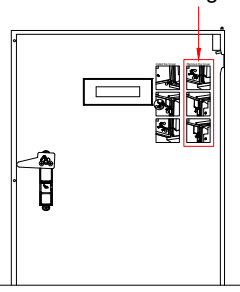
1



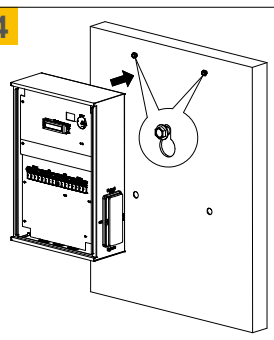
2



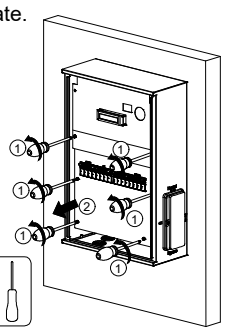
3 Remove the cover is for the convenience of wiring.



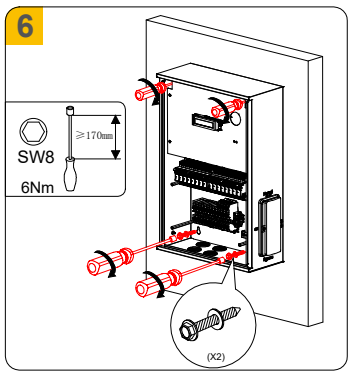
4



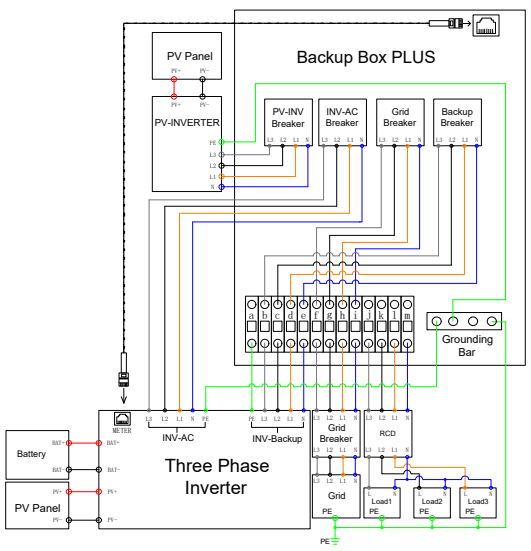
5 Remove the lower insulation plate.

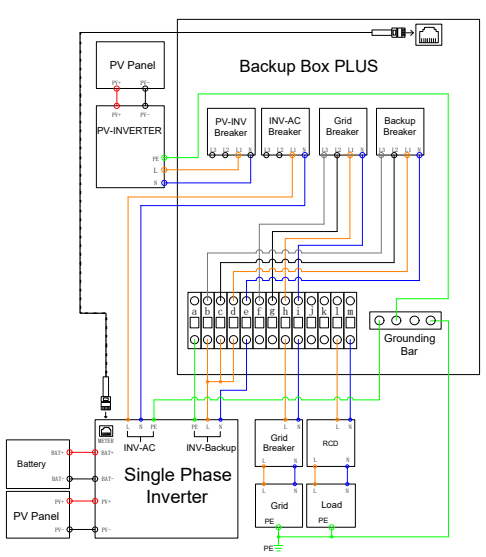


6



4.0 System Wiring Diagram





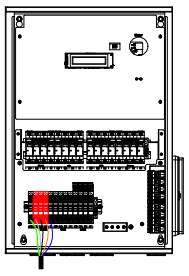
Number	Description	Number	Description	Number	Description
a	PE	f	Grid-L3	j	Load-L3
b	Backup-L3	g	Grid-L2	k	Load-L2
c	Backup-L2	h	Grid-L1	l	Load-L1
d	Backup-L1	i	Grid-N	m	Load-N
e	Backup-N				

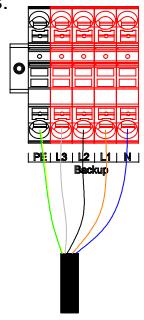
NOTICE

Please connect PE cable between Backup Box Plus and the inverter.

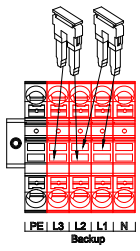
5.0 Electrical Connection

1 Connect the backup cables.

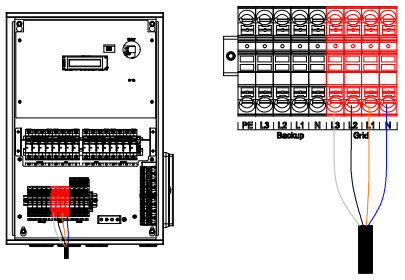




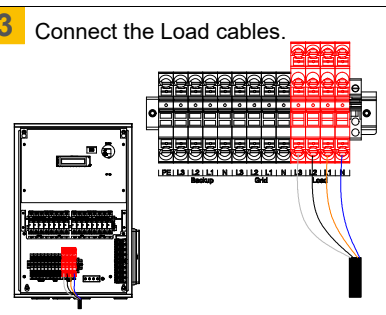
Note:
When connecting cables, the cable must pass through the rubber plug at the bottom.
The rubber plug should be cut with a knife along the middle cross.
If single-phase inverter connection is used, FBS-2-12 in accessories can be used.



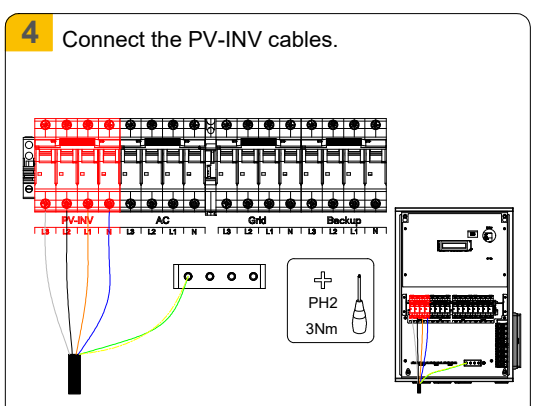
2 Connect the grid cables.



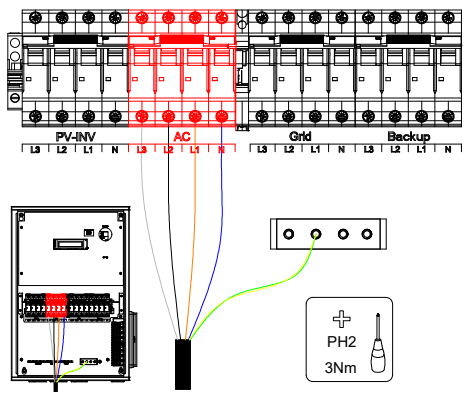
3 Connect the Load cables.



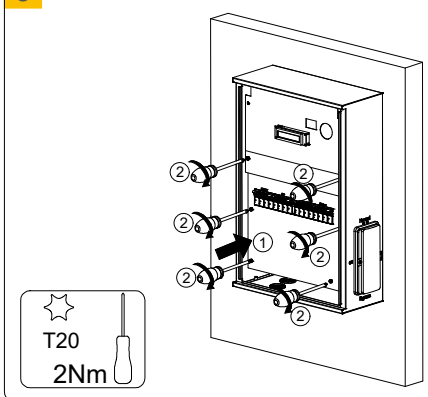
4 Connect the PV-INV cables.



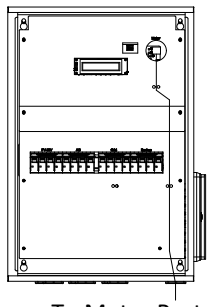
5 Connect the AC cables.



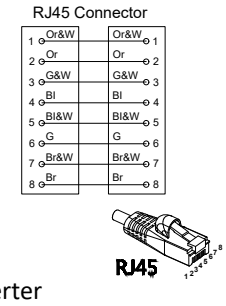
6 Install the lower insulation plate.



7 Connect the communication cables.



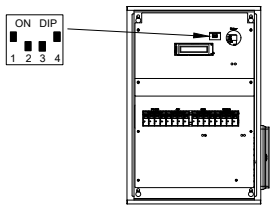
RJ45 Connector



To Meter Port of Inverter

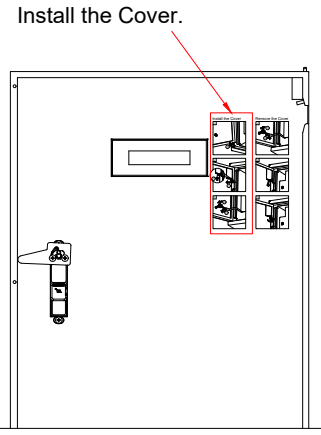
Note:
The communication cable must be passed through the cable tie which is installed on the upper insulation plate. Then, secure the cable tie.

8 DIP Switch Configuration.

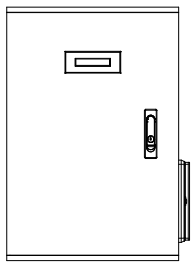


DIP Switch	Description
1	Dial to "OFF" for three-phase system and "ON" for single-phase system.
2	Undefined
3	Undefined
4	Dial to "ON" to turn on power recovery delay and "OFF" to turn off power recovery delay.

9 Install the Cover.



10



Note:
Close and lock the cover.
Please keep the key properly.

6.0 Configuration

6.1 Configuration on Alpha APP



1

When the system mode is selected as "DC", only tick "Meter" on the right of the "Grid Meter" .When the system mode is selected as "AC" or "Hybrid", tick both "Meter" on the right of the "Grid Meter" and "PV Meter".

2

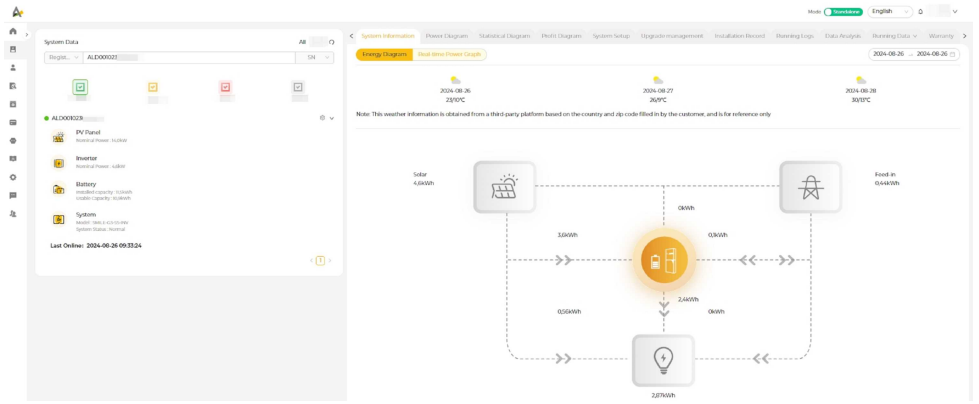
Click "Submit" and enter the "System information" page to check the meter model. The setting is successful if meter model is Backup Box-PLUS.

NOTICE

It is forbidden to tick CT to modify the ratio.

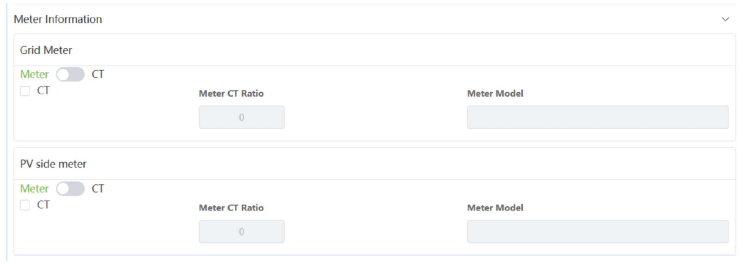
6.2 Configuration on Alpha Cloud.

1 Log in to https://cloud.alphaess.com/, and input the system SN to check the status of the system.



2 ① When the system mode is selected as "DC", click the button under the "Grid Meter" to make it orange. When the system mode is selected as "AC" or "Hybrid", click the buttons under the "Grid Meter" and "PV side meter" to make both orange.

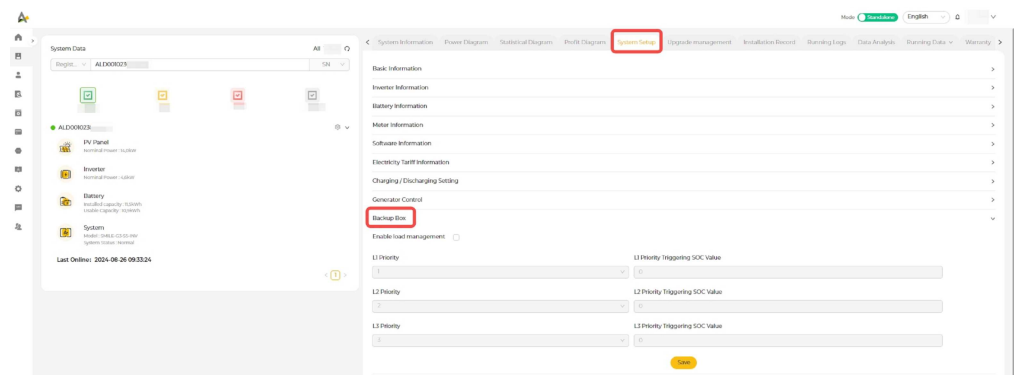
② Click "Save" and wait till the page is refreshed.
When the "Meter Model" displays BackupBox-PLUS, the setting is successful.



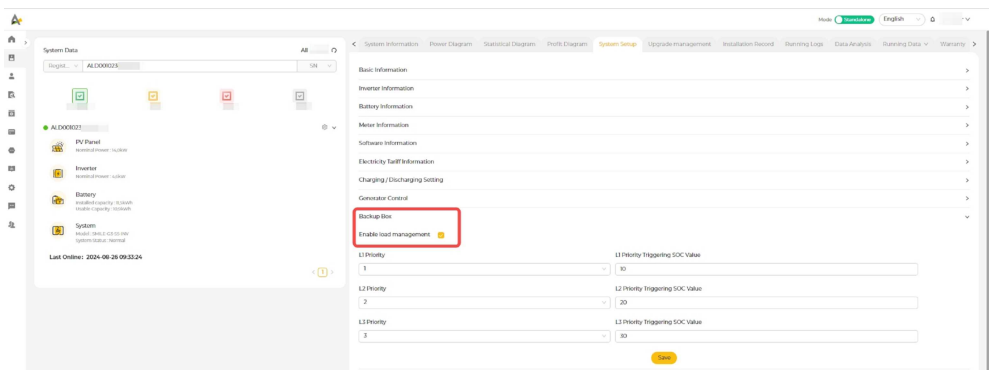
NOTICE

It is forbidden to tick CT to modify the ratio.

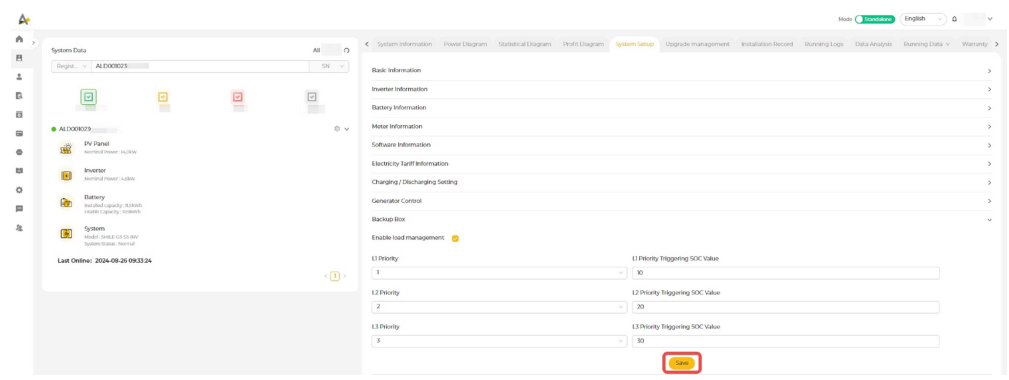
3 Please log in to the AlphaCloud page, select "System Setup", and click "Backup Box".



4 Select "Enable load management" and set different priorities and minimum SOC values for each phase.



5 Complete all the setting steps above and click "Save" to enable the Backup Box function.



7.0 Specification

Model	Description
Phase	Three Phase
Communication	RS-485
Display	LCD
Operating Temperature	-10 ℃ ~ 50 ℃
Relative Humidity	15% ~ 85%
IP Protection	IP21
Dimension (W x D x H)	410 x 169 x 605 mm
Nominal Backup Power	10 kW
Grid Voltage Range	184 ~ 264.5 V (L-N)
Grid Frequency	50 Hz
Max. Output Current	3 X 63 A
Net Weight	25 kg

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