

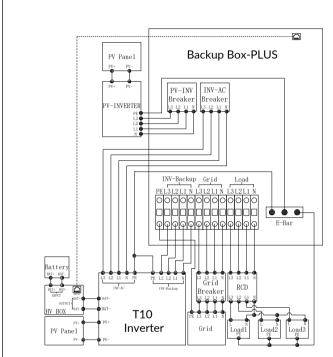
QUICK INSTALLATION GUIDE

Backup Box-PLUS V02



Parting List

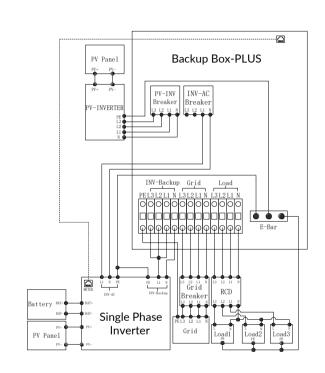
System Wiring Diagram



Backup Box-PLUS wiring diagram for three-phase inverter.

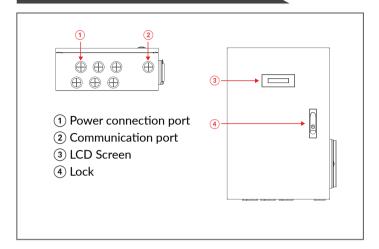


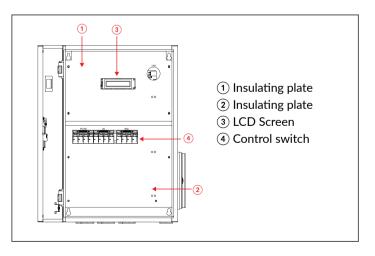
Please connect PE cable between Backup Box and the inverter. If the inverter does not have PE port, these is no need to connect PE cable.

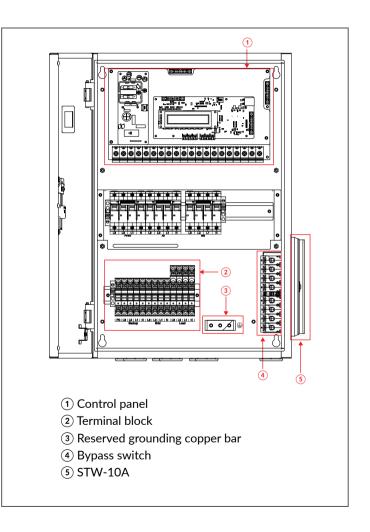


Backup Box-PLUS wiring diagram for single-phase inverter.

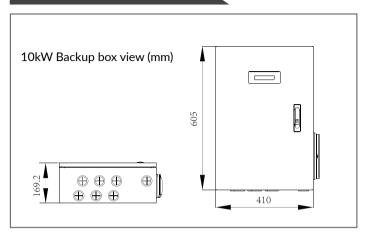
Instruction

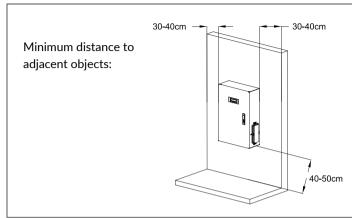






Instruction

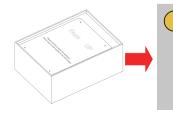




Installation

Step 1

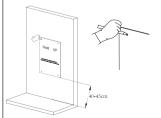
Take out the Backup Box-PLUS and accessories from the package.



Note: Please pay attention that the quantity of accessories is consistent with the details on the manual.

Step 2

Place the cardboard on the wall where the Backup Box-PLUS will be installed, and mark on the wall according to holes on the cardboard.



! Note: Please ensure that the cardboard is level to prevent the Backup Box-PLUS from tilting after installation.

Step 3

Use the impact drill to drill holes according to the marks on the wall (Drill: M10, Depth: 70mm).



Step 4

Take out the plastic expansion screws and vertically place the expansion tubes into the holes.

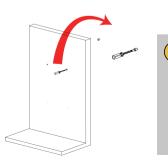


!

Note: The expansion tube should be completely buried in the hole and should not protrude from the wall.

Step 5

Lock the expansion screws into the two upper holes.



! Note: Reserve a distance of 3-8mm between the bottom of the expansion screw and the wall to facilitate subsequent installation.

Step 6

Hang the Backup Box-PLUS on the installed expansion bolt.

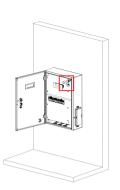


Step 7

Use the key to open the upper cover, and use the SW10 sleeve to lock the two expansion screws above.

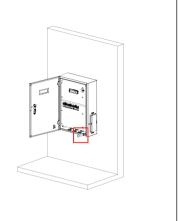
<u>!</u>

Note: The tool used in this step should be matched with the extension rod (about 20cm).



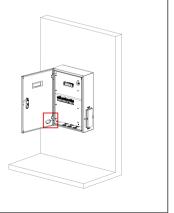
Step 8

Lock the two expansion screws at the bottom.

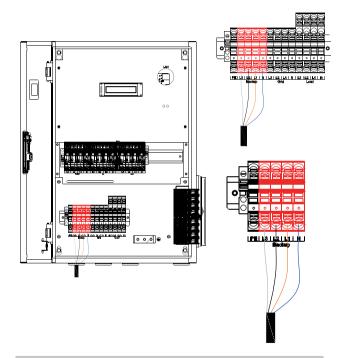


Step 9

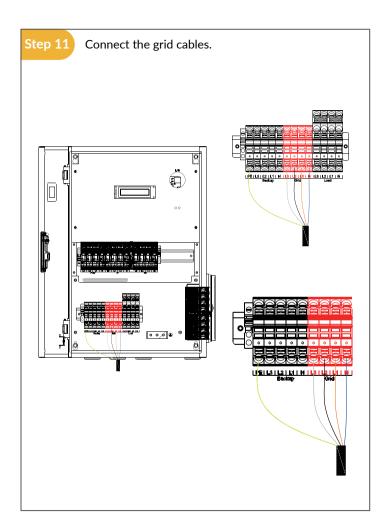
Use a Philips screwdriver to remove the insulation plate.

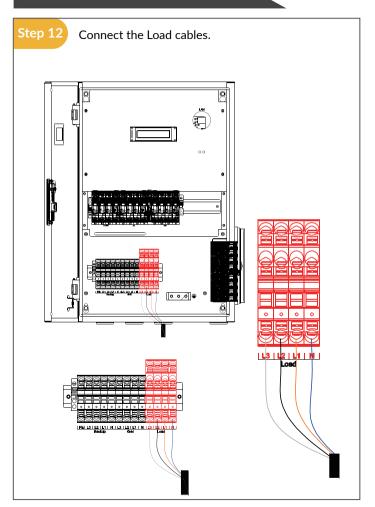


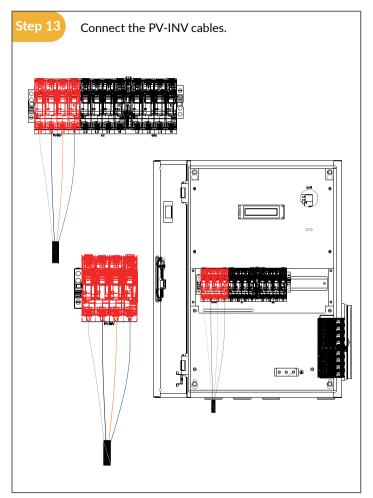
Step 10 Connect the backup cables.

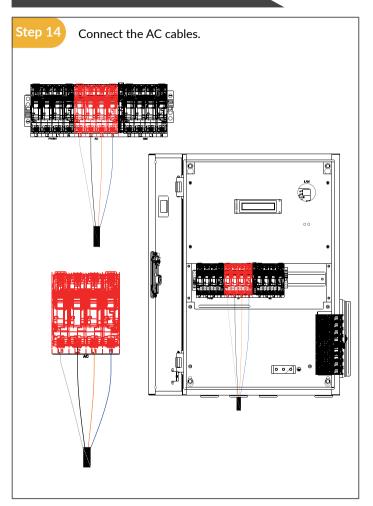


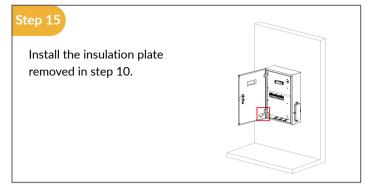
! Note: When connecting cables, the wire harness must pass through the rubber plug at the bottom. The rubber plug should be cut with a knife along the middle cross.

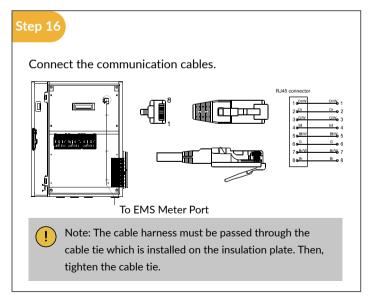












Step 17

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" for power recovery delay and "OFF" to turn off power recovery delay.

Step 18

After installation, close and lock the upper cover.



Note: Please keep the key properly.

Configuration

Configuration on AlphaAPP



Step 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 side meter".

Step 2

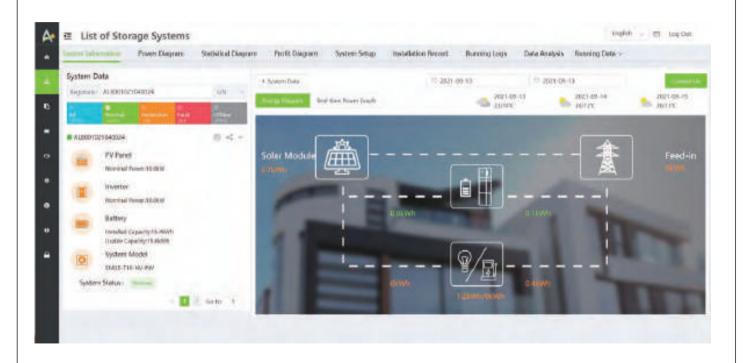
Click "Submit" and enter the "System information" page to check the meter model. The setting is successful if meter model is Backup-Box-PLUS.

(!)

Note: It is forbidden to tick CT to modify the ratio.

Configuration on AlphaCloud.

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



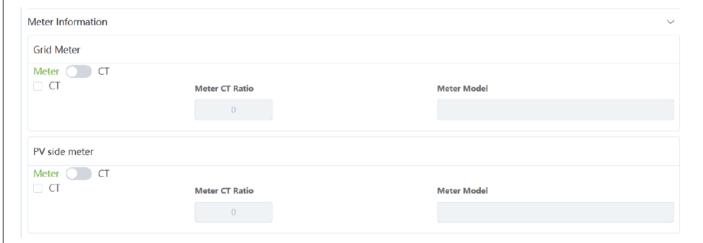
Configuration on AlphaCloud.

When the system mode is selected as DC, click the button under the "Grid Meter" to make it green.

When the system mode is selected as AC or Hybrid, click the buttons under the "Grid Meter" and "PV side meter" to make both green.

Step 3 Click "Save" and wait till the page is refreshed.

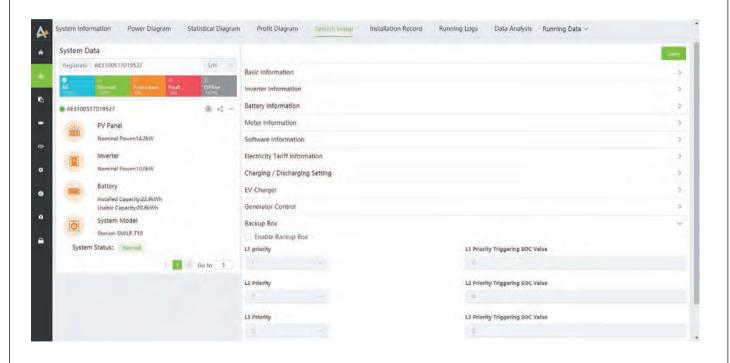
When the "Meter Model" displays BackupBox-PLUS, the setting is successful.



Note: It is forbidden to tick CT to modify the ratio.

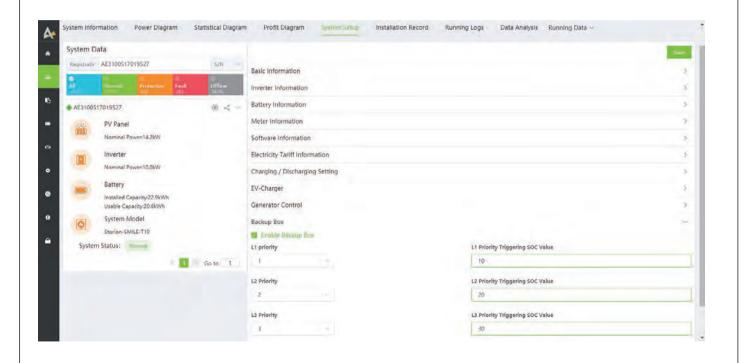
Configuration on AlphaCloud.

Step 4 Please log in to the AlphaCloud page, select "System Setup", and click "Backup Box".



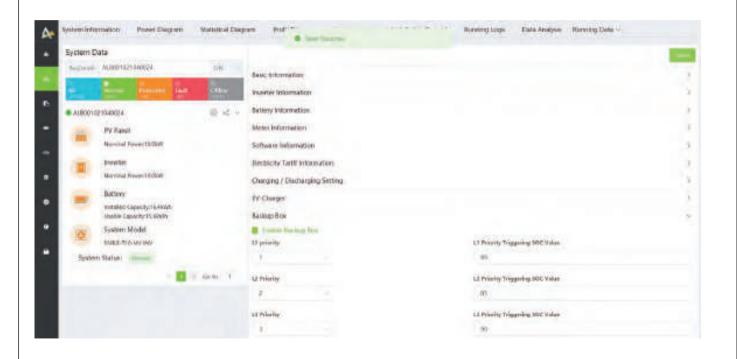
Configuration on AlphaCloud.

Step 5 Select "Enable Backup Box" and set different priorities and minimum SOC values for each phase.



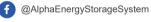
Configuration on AlphaCloud.

Step 6 Complete all the setting steps above and click "Save" to enable the Backup Box function.



Specification

Model	Backup Box-PLUS
Phase	Three Phase
Communication	RS-485
Display	LCD
Operating Temperature	-10 °C ~ 50 °C
Humidity	15% ~ 85%
IP Protection	IP21
Dimension (W x D x H)	410 x 169 x 605 mm
Warranty	5 Years
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



Headquarter: Alpha ESS Co., Ltd.

- **6** +86 513 806 068 91
- info@alpha-ess.com
 info@alpha-ess.com
- www.alpha-ess.com
- Industrial Development Zone, Nantong City, 226300

Germany: Alpha ESS Europe GmbH

- +49 610 3459 1601
- europe@alpha-ess.de
 europe@alpha-ess.de
- @ www.alpha-ess.de
- ⚠ Paul-Ehrlich-Straße 1a, 63225 Langen, Hessen





@alpha_ess



@AlphaESS

Suzhou: Alpha ESS Suzhou Co., Ltd.

- +86 512 6828 7609
- info@alpha-ess.com
- www.alpha-ess.com
- Building 10-A, Canal Town Industrial Park, 99 Taihu E Rd, Wuzhong District, Suzhou 215000

Italy: Alpha ESS Italy S.r.l.

- **2** +39 599 239 50
- info@alpha-ess.it
- www.alpha-ess.it
- M Via Loda,17-41013 Castelfranco Emilia(MO)

Australia: Alpha ESS Australia Pty. Ltd. *

- * +61 402 500 520 (Sales)
- +61 1300 968 933 (Technical Support)
- 🔀 australia@alpha-ess.com www.alpha-ess.com.au
- Unit 1, 2 Ralph Street Alexandria NSW 2015

Korea: Alpha ESS Korea Co., Ltd

- +82 64 721 2004 korea@alpha-ess.com
- 2F, 19-4, Nohyeong 11-gil, Jeju-si, Jeju-do, Republic of Korea

UK: Alpha ESS UK Co., Ltd

- uk@alpha-ess.com
- ⚠ Drake House, Long Street, Dursley, gl11 4hh