

# **QUICK INSTALLATION GUIDE**

# Backup Box-PLUS V02



# Parting List

Backup Box-PLUS					
	And Address And within Low and and Barry Barris Kill	Front UP			
M8 expansion screw X4	Quick installation guide X1	Positioning board x1			

#### System Wiring Diagram

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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.



#### Instruction



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#### 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.



### 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.



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.











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### Step 15

Install the insulation plate removed in step 10.

# Step 16

Connect the communication cables.



**DIP Switch Configuration** 



<b>DIP Switch</b>	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

e			8	
Connect to the hotspot	subui Configuration		iyetun Colligue	-
Basic )	Parameter Setti	ng		
AC/DC/Hybrid		Hybrid		-
On Grid PV Capacity(KW)			(kW)	
Storage PV Capacity(KW)			(kW)	
Grid Meter	Сст		Meter	
PV Meter	Ст	2	Meter	
		π		
Safety Regulations	VD	E4105/11	.18	-
Max_Feed-in(%)		100		

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.

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.

#### ep 3 Click "Save" and wait till the page is refreshed. When the "Meter Model" displays BackupBox-PLUS, the setting is successful.

Meter Information			$\sim$
Grid Meter			
Meter CT			
CT	Meter CT Ratio	Meter Model	
	0		
PV side meter			
Meter CT			
CT	Meter CT Ratio	Meter Model	
	0		
! Note: It is forbidden to tick	CT to modify the ratio.		

#### Configuration on AlphaCloud.

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

System Infor	mation	Power Diagr	am	Statistical Diagram	Profit Diagram	System Seture	Installation Record	Running Logs	Data Analysis	Running Data 🛩	
System Da	ita										-
Registrati	AE3100517	019527	55	S/N V	Basic Information						3
	Rennal.	Protection	Fault	Offline 14745	Inverter Information						3
AE310051	PV Panel			< - < < -	Meter Information						3
	Nominal Po	ween14.2kW			Software Information						a
	Inverter Nominal Pe	wee10.0kW			Electricity Tariff Inform	ation					
-	Battery				Charging / Discharging	g Setting					
-	Installed Ca Usable Cap	pacity:22.9kWh acity:20.6kWh			Generator Control						3
C	System M Storion SM	odel ILE-T10			Backup Box Enable Backup Box						
System	Status:	lineroush			L1 priority			L1 Prior	ity Triggering SOC 1	Value	
			1	Go to 1	0						
					L2 Priority			L2 Prior	ity Triggering SOC \	/alus	
					3			0			
					L3 Priority			L3 Prior	ity Triggering SOC \	/alue	
								EL.			

#### Configuration on AlphaCloud.

Step 5

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



#### Configuration on AlphaCloud.

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

4	System Information Power Diagram Statist	ical Diagram Prof <sup>1</sup> <sup>10</sup> <sup>1</sup>	Running Logs Data Analysis Running Data ~
*	System Data		-
4	Registrativ ALB001021040024 5.	Basic Information	2
0	• ALB001021040024	Battery Information	2
•	PV Panel Nominal Power:10.0kW	Meter Information Software Information	3
¢	Inverter Nominal Power:10.0kW	Electricity Tariff Information Charging / Discharging Setting	3
۲	Battery Installed Capacity:16.4kWh Usable Capacity:15.6kWh	EV-Charger Backup Box	5
•	System Model SMILE-T10-HV-INV	Fontide Backup Box L1 priority	L1 Priority Triggering SOC Value
	System Status: Mennal	1	80
	Go to	2 L2 Priority	L2 Priority Triggering SOC Value
		L3 Priority 3	13 Priority Triggering SOC Value 90

Model	Backup Box-PLUS
Phase	Three Phase
Communication	RS-485
Display	LCD
Operating Temperature	- <b>10</b> °C ~ <b>50</b> °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

#### @AlphaEnergyStorageSystem f

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