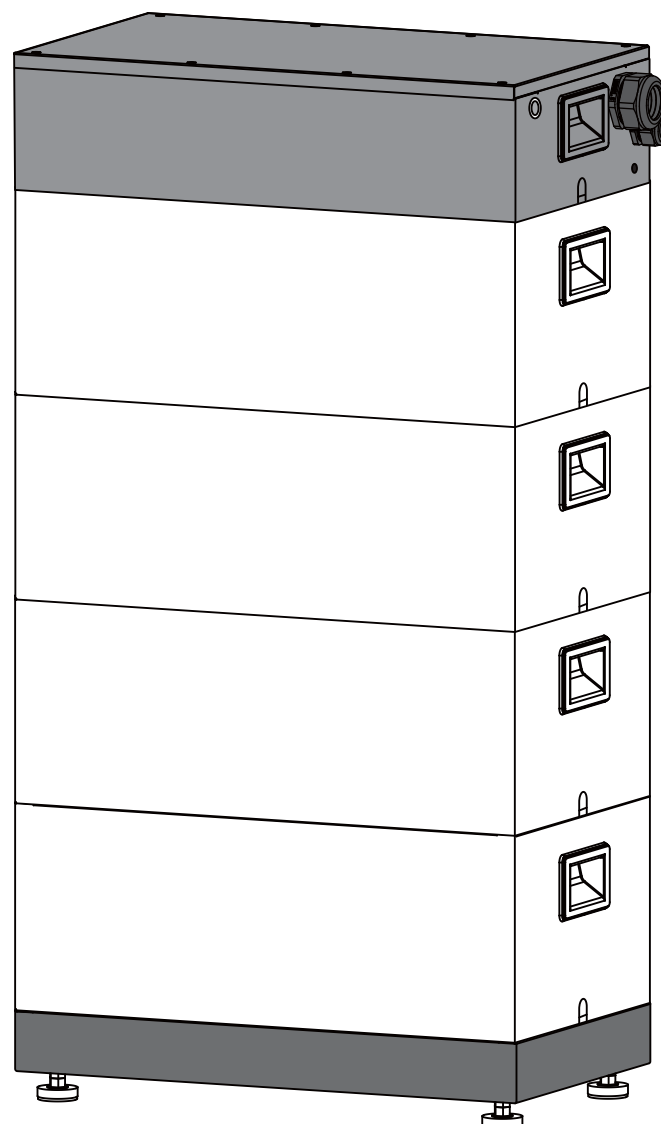




BYD Battery-Box LV

QUICK REFERENCE GUIDE

Valid for Battery-Box L 3.5/7.0/10.5/14 (AU)



Target Group

V10



Skilled personnel recognized
This manual and the tasks 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 manual and all safety precautions and best practices.

Installation environment requirements

Max. +50°C

Min. -10°C

RH. +5%~+95%

YES

YES

YES

NO Direct sunlight

NO Direct rain fall

NO Snow accumulation

NO

Flammable material or gas near the installation

NO

Tools

Wire clamp

Torque wrench

Precision screwdriver

Inclinometer

Wrench

Churn drill

Packing list

Packing of BCU+BASE				Packing of B-Plus L 3.5
① 4× M6	② 1×M8	③ 1×M10	④ 3×Expansion bolt M6	2×M6

Overall structure

Battery-Box L 3.5

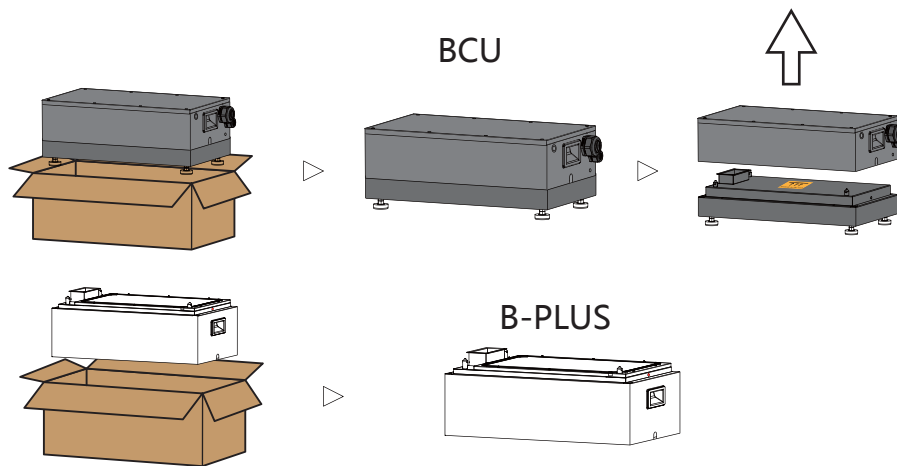
Battery-Box L 7.0

Battery-Box L 10.5

Battery-Box L 14

Installation step

1 Unpack



Please be careful not to lose the accessories.

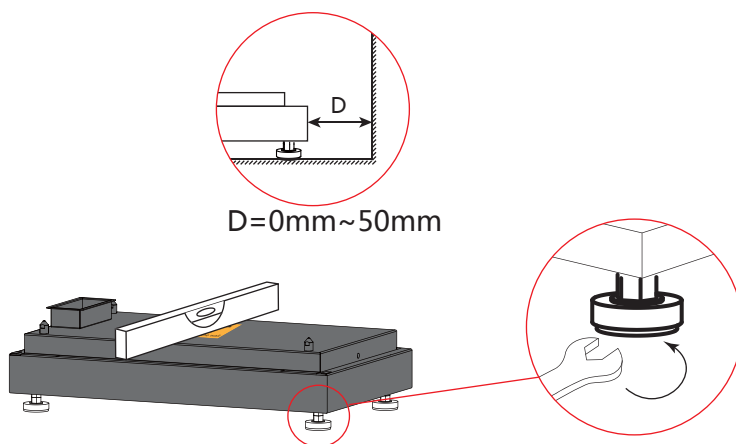
When the BCU and the base are taken out of the carton, in order to prevent the base from hurting your foot, please hold the bottom of the base with your hand.



warning

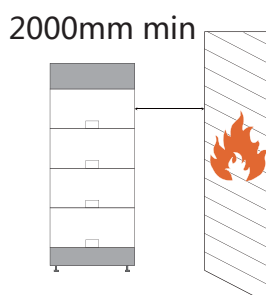
When the BCU and the base are taken out of the carton, in order to prevent the base from hurting your foot, please hold the bottom of the base with your hand.

2 Level the base

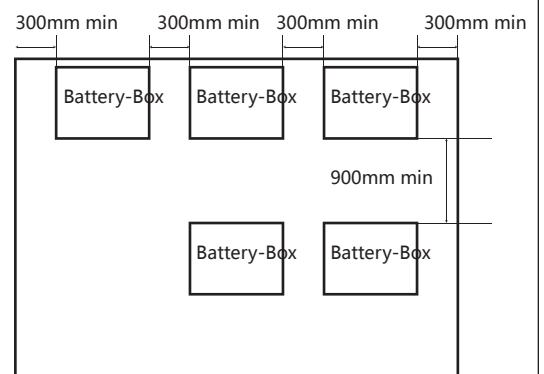
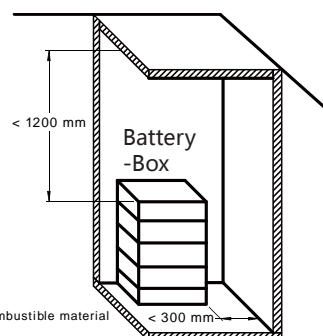


Please pay attention to the correct installation direction

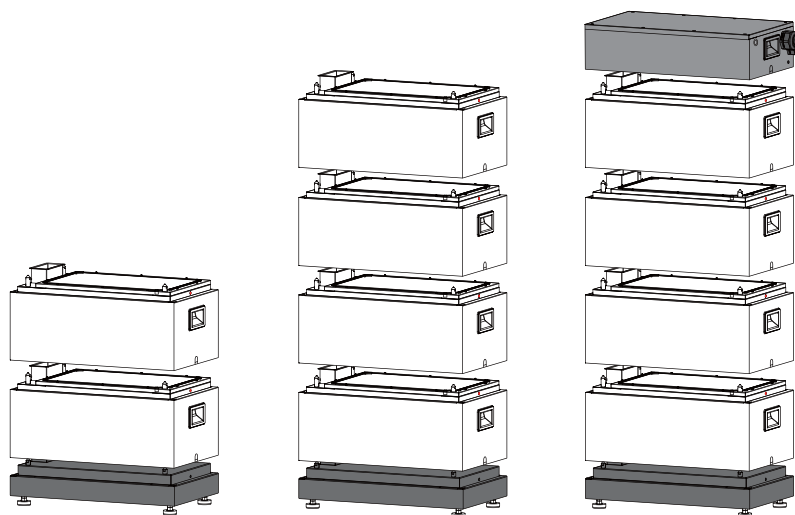
3 Installation requirements



KEY:
Non-combustible material

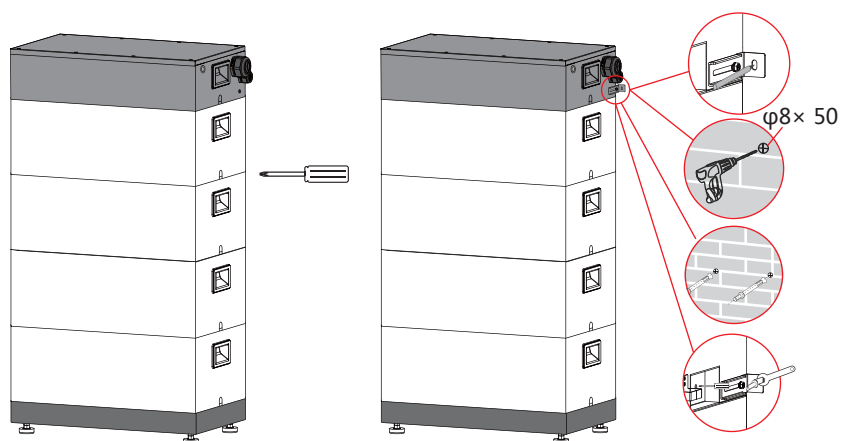


4 Install the B-Plus and BCU



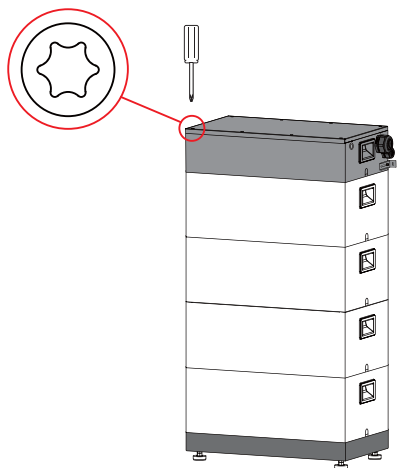
When installing, please try to put the battery and BCU down vertically to avoid damage to the connector pins.

5 Tighten the screws and fasten BCU



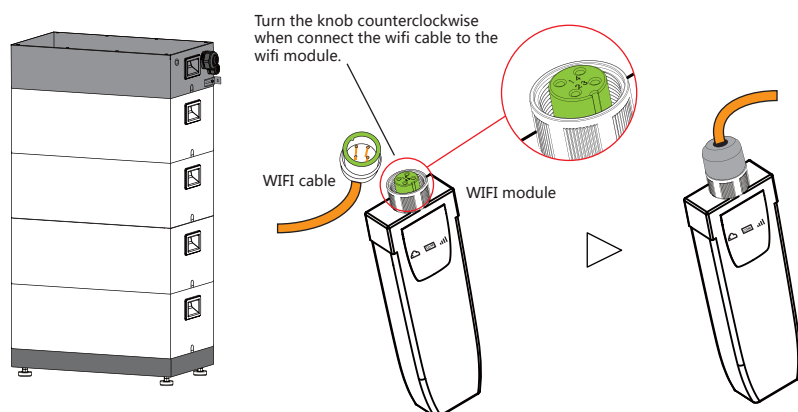
To avoid dumping, please make sure it is properly installed.

6 Open the cover of BCU



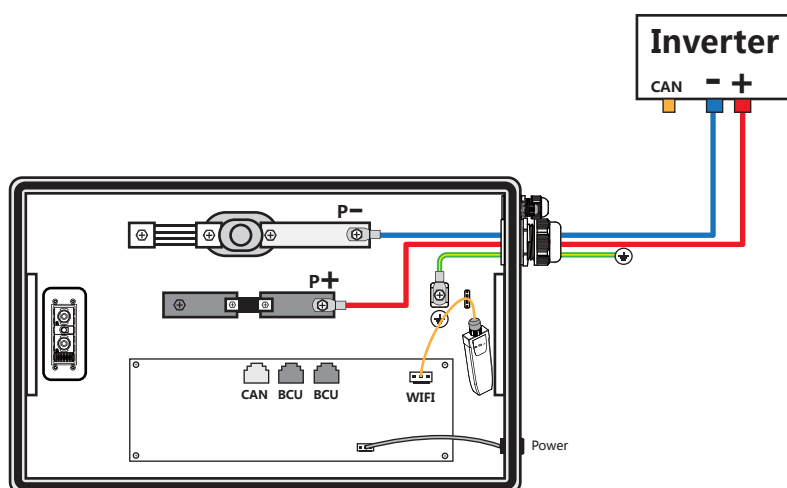
7 Install the WIFI

Please install the WIFI module inside the BCU



Rotate the WIFI antenna clockwise to complete the installation.

8 Connect the power cable



Connect the power cable correctly according to the inverter installation manual.



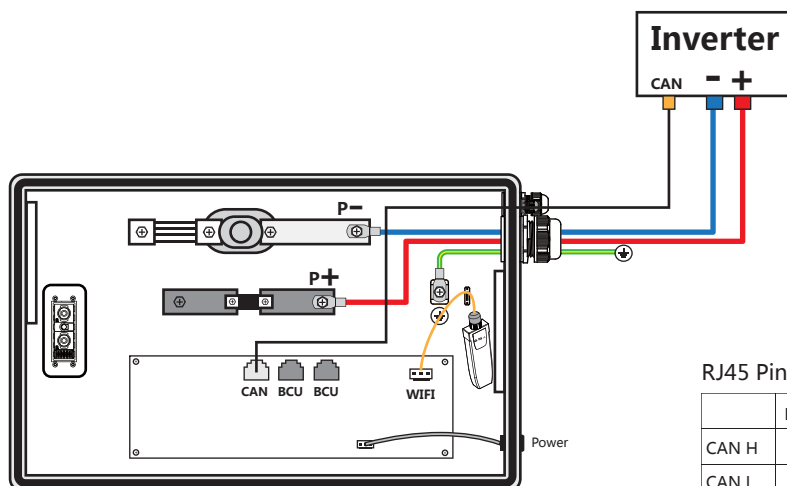
warning

If the cable is connected incorrectly, the system may not start or even be damaged. This situation is outside the warranty.

9 Connect the communication cable

The connection of the communication cable is important. Note the line order.

Note: If the Battery-Box does not communicate properly with the inverter, the entire system will not work. The battery may be damaged.



1-8

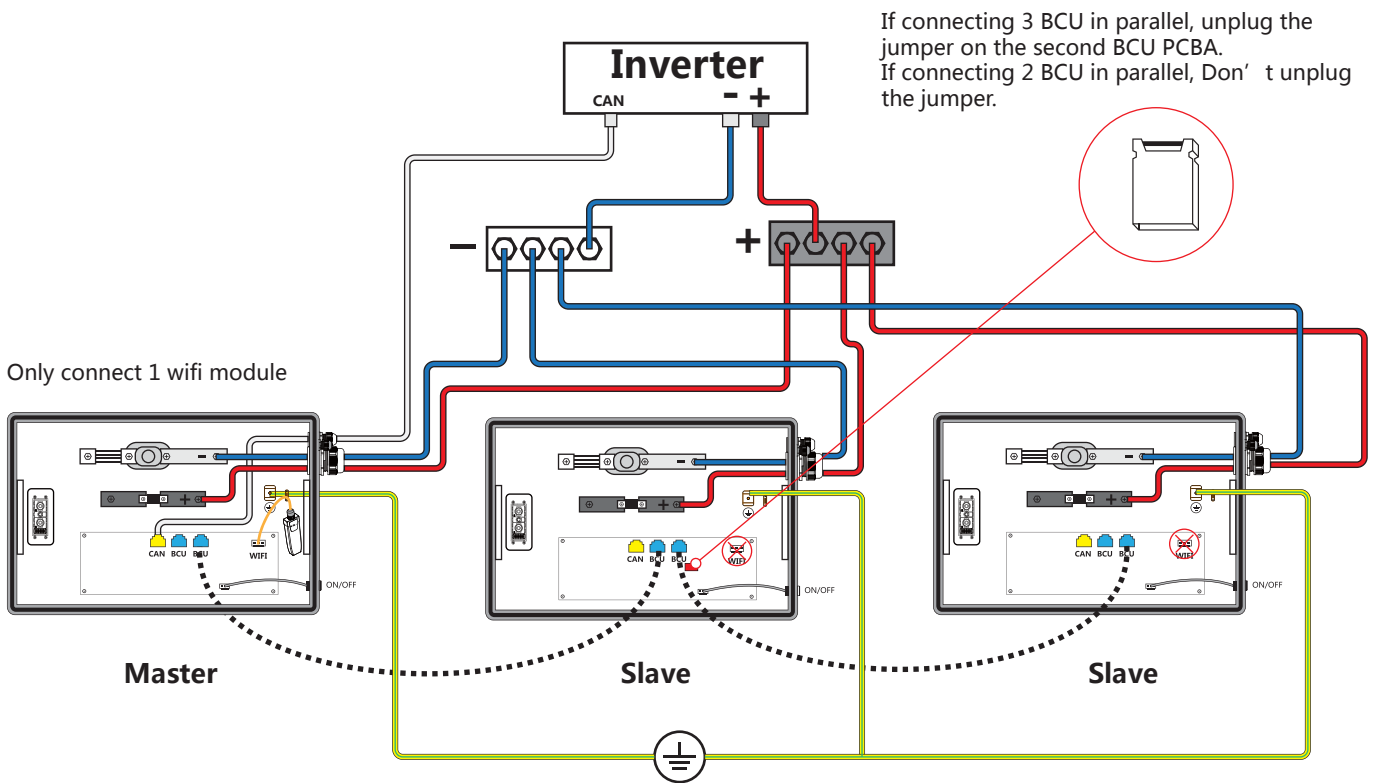


RJ45 Pin define



	Battery-Box	SMA	GOODWE	VICTRON	SUNGROW	Solis
CAN H	4	4	4	7	CAN H	4
CAN L	5	5	5	8	CAN L	5

10 Parallel






11 Parallel

You can use a computer, mobile phone or IPAD to set up and configure.

Power



WLAN ☐

BYD*****   



10.10.100.254

Go



Log in to 10.10.100.254

Your Password will be sent unencrypted.

User name admin

Password admin

Cancel

Log In



12. Update the Battery-Box firmware

Status Wizard
Quick Set
Advanced
Upgrade
Wifi
Battery-Box

Battery-Box software

Current version
Browse
Upload

D:\B-BOX\software
Battery-Box LV firmware
open

Reminder:
There are two ways to update the firmware for BCU: over the WIFI connection and over the cable connection.
Update via WIFI connection: The update step on the left.
Update via cable connection: update methods are available at the following Web site. Or scan the QR code to visit the site for more information.
<http://alpspower.com.au/download/>



13. Checking the status of the Battery-Box

checking the battery status by typing the URL

10.10.100.254/dev_set.html

BCU1 / BCU2 / BCU3	
BCUStatus	
BICNum	
BIC1Status	
BIC2Status	
BIC3Status	
BIC4Status	
BIC5Status	
VerY-M-D	
Ver	

14. Configure the network

Status Wizard
Quick Set
Advanced
Upgrade
Restart
Reset

Please select your current wireless network:
Site Survey
SSID BSSID RSSI Channel
SMA3001329476
TP-Link ***
Back Next

Your router password
Password(8-64 bytes)
(Note:case sensitive)
Back Next

Back Next

Back OK

*After clicking "OK", you need to wait for 10 seconds to close the webpage. Otherwise, the configuration is unsuccessful. Need to reconfigure.

15. System status indicator

Power

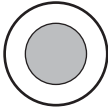
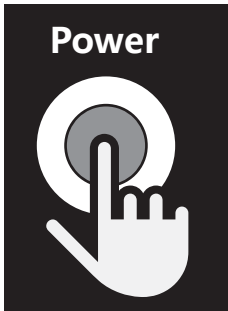


	Diagram	Status	Meaning
1		White blink slow	Charging
2		White blink fast	Discharging
3		White always ON	Idle
4		White blink very slow	Idle
5		Orange blink 2 times	System WIFI is lost
6		Orange blink 3 times	Loss of inverter communication
7		Orange blink 4 times	Lost slave CAN communication
8		Orange blink 5 times	Uncalibrated
9		Orange always ON	BCU or Battery Failure

Power on and Power off

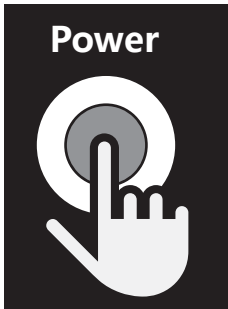
16 Power on the BCU



Press the button for 1 second

When you hear the sound of the relay closing and the white light is always on around the button, the Battery-Box is turned on.

17 Power off the BCU



Press the button for 3 seconds

18 Correct Power on/Power off sequence

Power on

- 1 Power on Battery-Box
- 2 Power on Inverter
- 3 Power on Load

Power off

- 1 Power Off Load
- 2 Power Off Inverter
- 3 Power Off Battery

warning

Incorrect power on sequence may result in the system not working properly or even damaging certain parts.