



# Battery-Box Premium LV BMU - IP55 Instruction Manual

V1.1

## VALIDITY

This document is valid for the Battery-Box Premium LV BMU - IP55 (Battery Management Unit) (“**BMU**”) from firmware version 1.11.

## INTENDED USE

BMU is applicable for the BYD Battery-Box Premium LV system(s) (LVS 4.0, LVS 8.0, LVS 12.0, LVS 16.0, LVS 20.0, LVS 24.0 and LVL 15.4) (“**Battery-Box**”), and works as a control unit for the system(s).

## PRODUCT DESCRIPTION

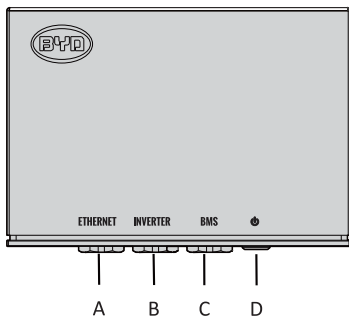
BMU is equipped with a WLAN interface as a standard. The APP Be Connect could communicate with BMU through the WLAN.



Be Connect



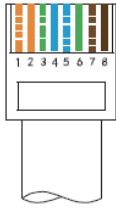
The WLAN name and code are on the label of BMU.



- A: Ethernet port
- B: RJ45 port for connection with an inverter
- C: RJ45 port for connection with Battery-Box
- D: Stop button and status LED



## Assignment of Port B



No.	Assignment
1	485-A
2	485-B
3	Unused
4	CAN H
5	CAN L
6	Unused
7	Unused
8	Unused

## SCOPE OF DELIVERY

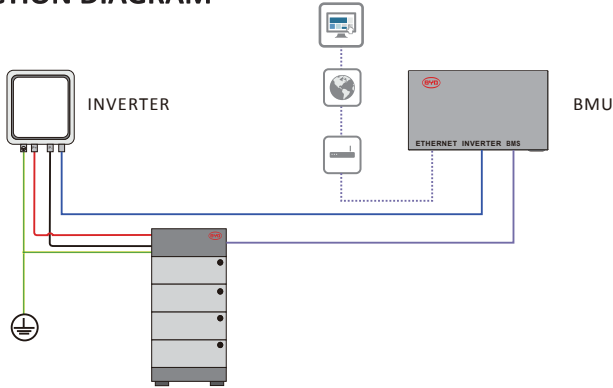
- 1×BMU
- 1×Instruction Manual
- 3×Connectors
- 1×Hanger

## TECHNICAL DATA

Communication	Ethernet/CAN/RS 485
Input voltage*	40-60 V
Input current	200 mA
Weight	2 kg
Dimensions (L×W×H)	222 mm×154 mm×59 mm
Ambient temperature in operation	-10°C to 50°C
Relative humidity (non-condensing)	5% to 95%
Degree of protection (in accordance with IEC 60529)	IP55

\*BMU is powered by Battery-Box through the network cable. No other power supply is needed.

## CONNECTION DIAGRAM

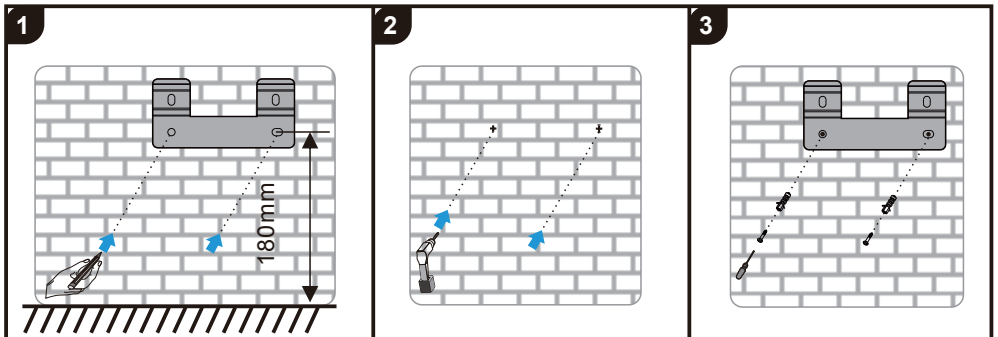


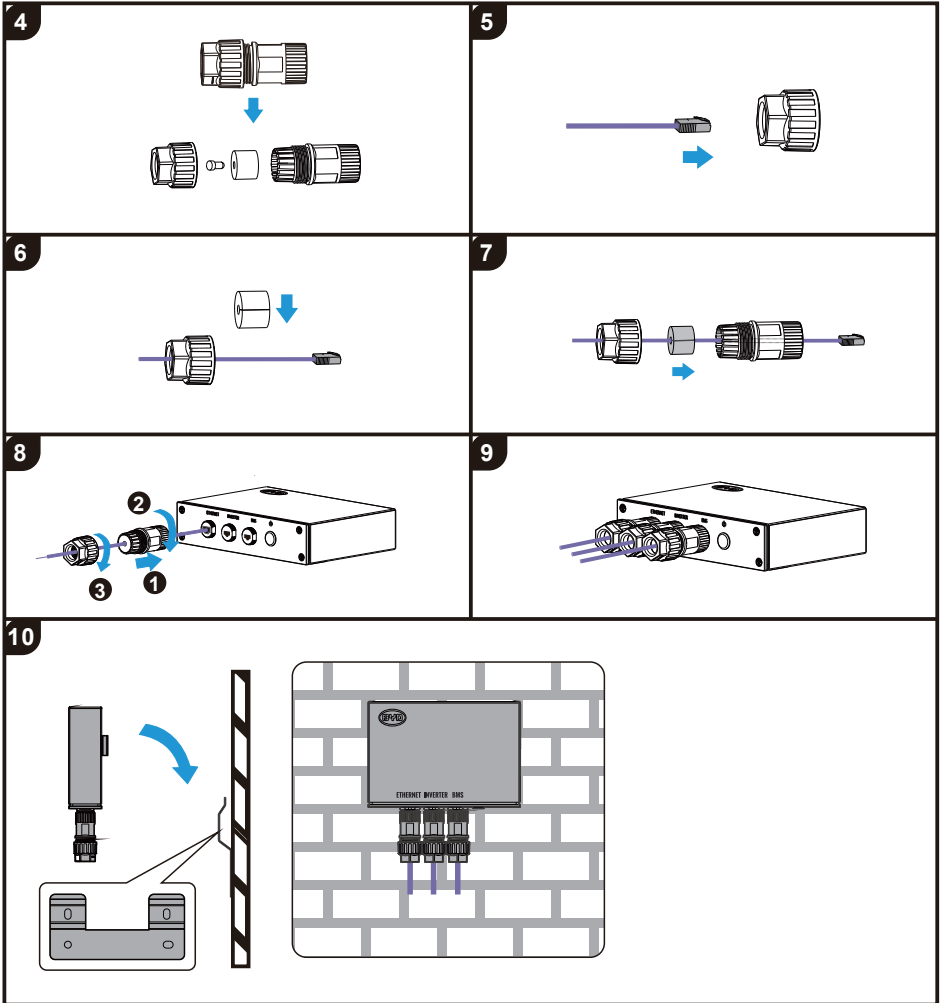
	BMU	SMA	STUDER	VICTRON	SELECTRONIC	SOLAREEDGE	GOODWE	SUNGROW	SCHNEIDER	SOLIS
CAN H	4	4	4	7	1	4	4	4	14	4
CAN L	5	5	5	8	2	5	5	5	12	5

1. Detailed connection instructions with inverters could be read in the Battery-Box LVL/LVS Quick Start Guide.
2. The communication cable between BMU and an inverter cannot be longer than 10 meters. And the cable should be CAT 5 shield or above.
3. Please make sure the correct pins are connected between BMU and an inverter.
4. The connection between BMU and Battery-Box should be the Straight-Through Wired Cable.
5. Connected to the Internet is highly recommended.

## MOUNTING AND CONNECTION

Install BMU on the wall or a rack. The recommended expansion screw size is  $M6 \times 12$ . The minimum distance from the ground is 180 mm.





## COMMISSIONING

1. Make sure an inverter, Battery-Box, and BMU are correctly connected.
2. Press the Start Button on Battery-Box for 3 seconds.
3. Refer to Battery-Box Premium LVL/LVS Operating Manual for further steps.

## UPDATING FIRMWARE

The firmware of BMU could only be updated when it operates with Battery-Box. Please refer to Battery-Box Premium LVL/LVS Operating Manual for further information.

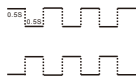


## LED STATUS

Flashing white and blue alternatively

White  ON  
 OFF

Blue  ON  
 OFF



The battery system is initiating.

Glowing white

White  ON  
 OFF

Blue  ON  
 OFF

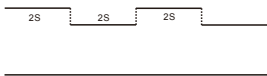


Idle (the battery system is neither charging nor discharging).

Flashing white slowly

White  ON  
 OFF

Blue  ON  
 OFF



The battery system is charging.

Flashing white quickly

White  ON  
 OFF

Blue  ON  
 OFF



The battery system is discharging.

Flashing white and glowing blue

White  ON  
 OFF

Blue  ON  
 OFF

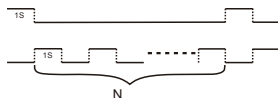


The battery system is discharging, and the SOC of Battery-Box is below 15%.

Flashing white and blue

White  ON  
 OFF

Blue  ON  
 OFF



An error has occurred. \*\*

\*\* The definition of the error codes could be found in Battery-Box Premium LVL/LVS Operating Manual.

## DISPOSAL

Dispose of BMU following the locally applicable disposal regulations for electronic waste.



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## CONTACT

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[https://twitter.com/BYD\\_BatteryBox](https://twitter.com/BYD_BatteryBox)

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