



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

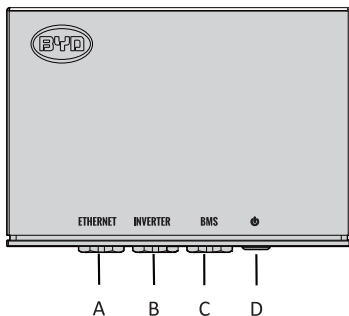
BMU is equipped with a WLAN interface as a standard. The APP Be Connect could communicate with BMU through the WLAN.



Be Connect

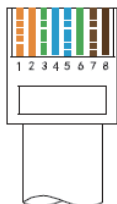


The WLAN name and code are on the label of BMU.



- 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

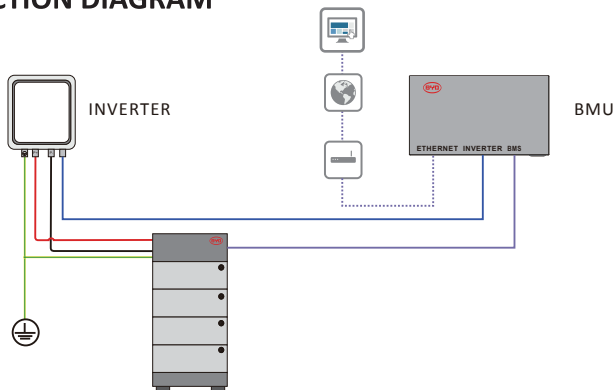
- 1×BMU
- 1×Instruction Manual
- 3×Connectors
- 1×Hanger

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

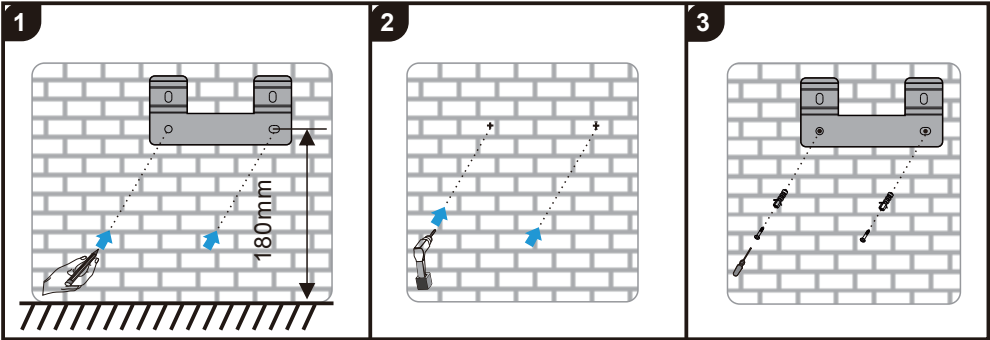


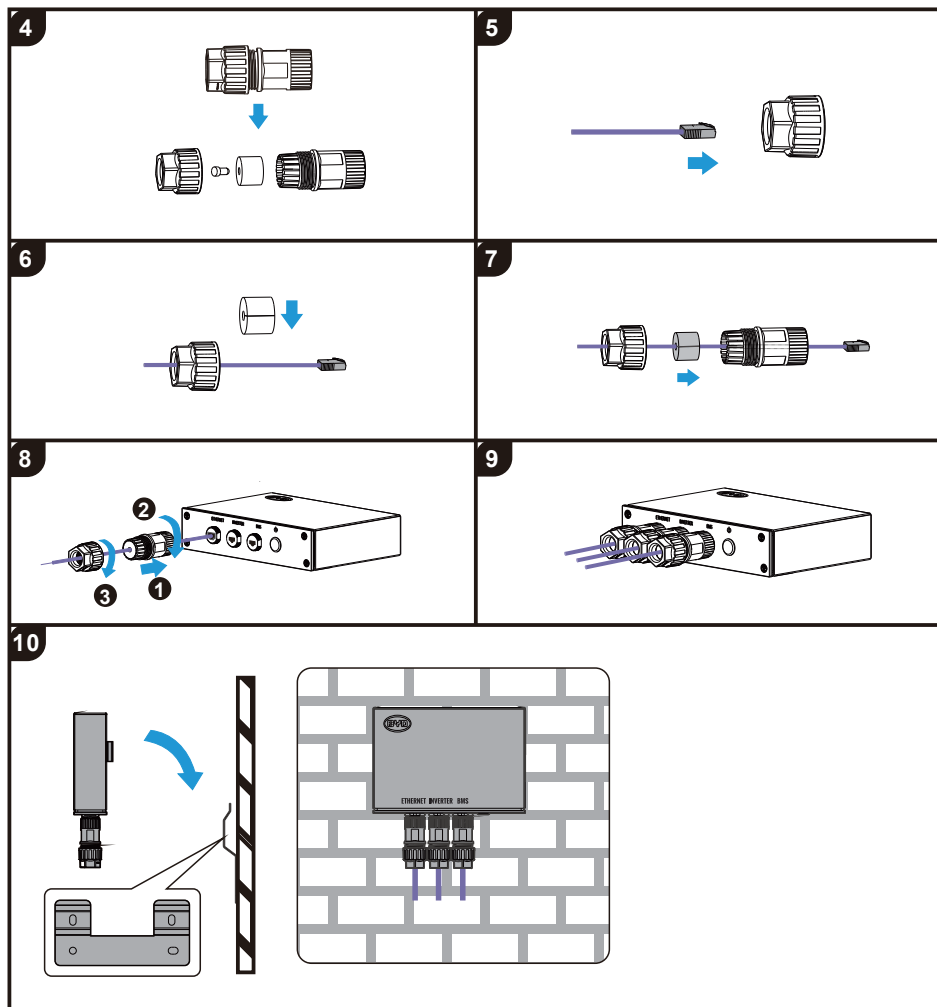
	BMU	SMA	STUDER	VICTRON	SELECTRONIC	SOLAREDGE	GOODWE	SUNGROW	SCHNEIDER	SOLIS
CAN H	4	4	4	7	1	4	4	4	14	4
CAN L	5	5	5	8	2	5	5	5	12	5

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 M6×12. 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

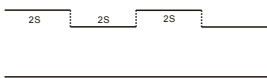


Idle (the battery system is neither charging nor discharging).

Flashing white slowly

White ☐ ON
OFF

Blue ☒ ON
OFF

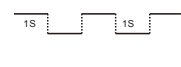


The battery system is charging.

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

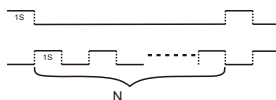


The battery system is discharging, and the SOC of Battery-Box is below 15%.

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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