BYD Battery-Box Premium LV BMU Instruction Manual

V1.2

VALIDITY

This document is valid for the BYD Battery-Box Premium LV BMU (Battery Management Unit) ("BMU") from firmware version 1.0.
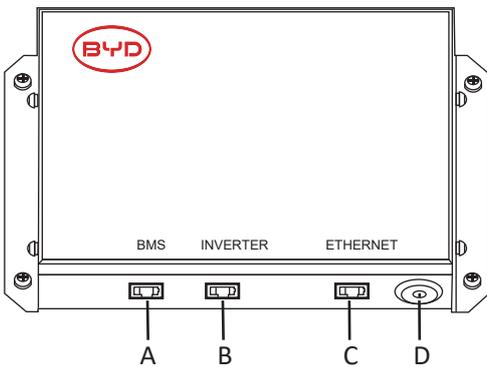
INTENDED USE

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 20.0 and LVL 15.4) ("Battery-Box"), and works as a control unit for the system(s).

PRODUCT DESCRIPTION

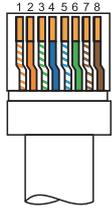BMU is equipped with WLAN.The APP Be Connect 2.0 could communicate with BMU through the WLAN.
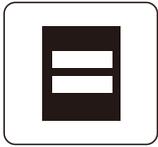
Be Connect 2.0

A: RJ45 port for connection with Battery-Box

B: RJ45 port for connection with an inverter

C: Ethernet port

D: LED Button

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

Assignment of Port B

No.	Assignment
1	Unused
2	Unused
3	Unused
4	CAN H
5	CAN L
6	Unused
7	Unused
8	Unused

SCOPE OF DELIVERY

- 1×BMU
- 1×Instruction Manual

TECHNICAL DATA

Communication	Ethernet/CAN
Input voltage*	40-60 V
Input current	200 mA
Weight	3 kg
Dimensions (L×W×H)	250 mm×122 mm×50 mm
Ambient temperature in operation	-10°C to 50°C
Relative humidity (non-condensing)	5% to 85%
Degree of protection (in accordance with IEC 60529)	IP20

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

CONNECTION DIAGRAM

INVERTER

NOTICE

Please don't ground BMU or Batter-Box at an inverter.
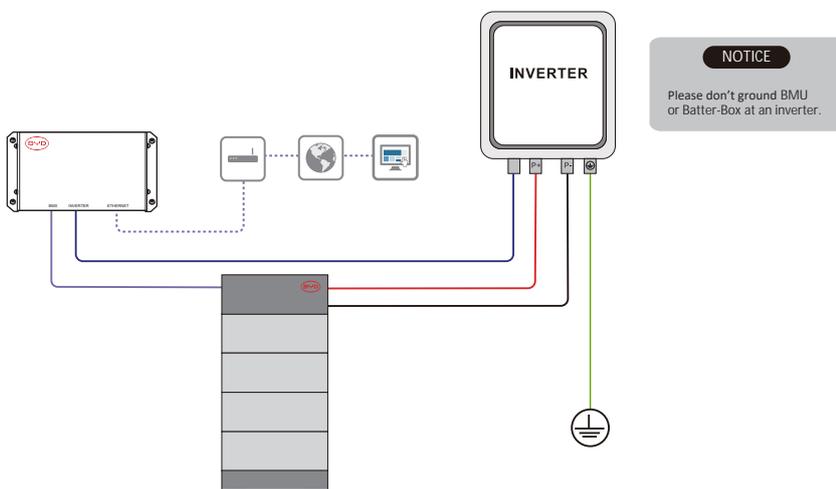
1. Detailed connection instructions with inverters could be read in the Battery-Box Quick Start Guide.

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.

6. The WLAN of BMU will switch off in 5 hours from turning on.
   Press the LED Button once when BMU is on could activate the WLAN again.
   Press the LED Button three times in six seconds, each time around 1 second could reset the WLAN.

MOUNTING

Install BMU on the wall or a rack. The recommended expansion screw size is M4×12. The minimum distance from the ground is 50 mm.
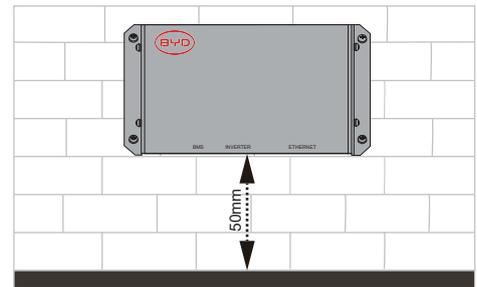
COMMISSIONING

1. Make sure an inverter, Battery-Box, and BMU are correctly connected.

2. Press the LED Button on Battery-Box for 3 seconds.

3. Refer to Battery-Box 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 Operating Manual for further information.

LED STATUS

Blinking white and blue alternately	White ○ Blue ●	ON/OFF 0.5s 0.5s	The battery system is initiating.
Solid white	White ○ Blue ●	ON/OFF	Idle (the battery system is neither charging nor discharging).
Blinking white slowly	White ○ Blue ●	ON/OFF 2s 2s	The battery system is charging.
Blinking white quickly	White ○ Blue ●	ON/OFF 1s 1s	The battery system is discharging.
Blinking white and solid blue	White ○ Blue ●	ON/OFF 1s 1s	The battery system is discharging,and the SOC is below 15%.
Blinking white and blue	White ○ Blue ●	ON/OFF 1s 1s N	An error has occurred (refer to the Service Guideline and Checklist for further details)

**When an error happens, refer to the Operation Manual of the corresponding Battery-Box for the more details.

DISPOSAL

Following the applicable regulations for electronic waste to dispose of BMU.

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