Battery-Box Premium LV BMU Instruction Manual

V 1.1

VALIDITY

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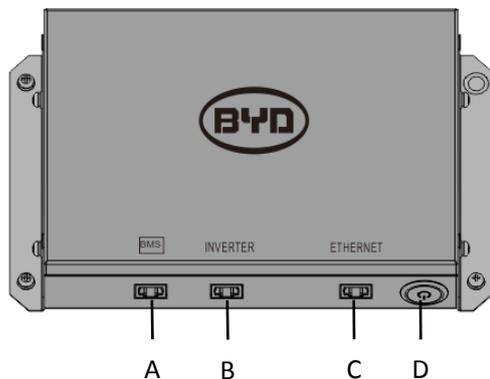
INTENDED USE

BMU is applicable for the BYD Battery-Box Premium LV system(s) (LVS 3.8, LVS 7.7, LVS 11.5, LVS 15.4, LVS 19.2, LVS 23.0 and LVL 15.4) (**"Battery-Box"**), and works as a control unit for the system(s).
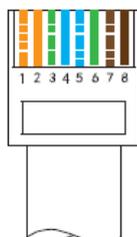
PRODUCT DESCRIPTION

BMU could launch a WIFI hot pot. Special tools BYD developed could communicate with BMU through the WIFI.
The WFI's name and code are on the label of BMU.

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

Assignment of Port B

No.	Assignment
1	481-A
2	481-B
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/RS 485
Input voltage*	40-60 V
Input current	200 mA
Weight	1 kg
Dimensions (L×W×H)	250 mm×122 mm×50 mm
Ambient temperature in operation	-10 °C
Relative humidity (non-condensing)	5% to 85%
Degree of protection (in accordance with IEC 60529	IP21

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

LED STATUS

Flashing white and blue alternatively (0.5s white then 0.5s blue): BMU and Battery-Box are initiating.

Glowing white: idle (Battery-Box is neither charging nor discharging).

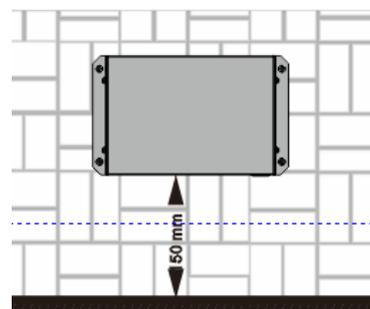**Flashing white slowly (2s on then 2s off):** Battery-Box is charging.

Flashing white quickly (1s on then 1s off): Battery-Box is discharging

Flashing white (1s on then 1s off) and glowing blue: Battery-Box is discharging, and SOC of Battery-Box is below 15%.

Flashing white and blue (1s white once then 1s blue several times): an error has occurred. (1s white once then 1s blue several times are a circle, and also error codes. The definition of the error codes could be read in Battery-Box Premium Operating Manual LVL)

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.

CONNECTION

1. The communication cable between BMU and an inverter cannot be longer than 10 meters. And the cable should be CAT 5 shield or above.
2. Please make sure the correct pins are connected between BMU and an inverter.
3. The connection between BMU and Battery-Box should be the Straight-Through Wired Cable.

COMMISSIONING

1. Make sure an inverter, Battery-Box, and BMU are correctly connected.
2. Press the Start Button on Battery-Box.

UPDATING FIRMWARE

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

DISPOSAL

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

CONTACT

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Social media link

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