

**BYD**

**Battery-Box Premium LV BMU - IP55 Instruction Manual**

V 1.0

**VALIDITY**

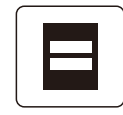


This document is valid for the Battery-Box Premium LV BMU - IP55 (Battery Management Unit) ("BMU") from firmware version 1.11.

**INTENDED USE**

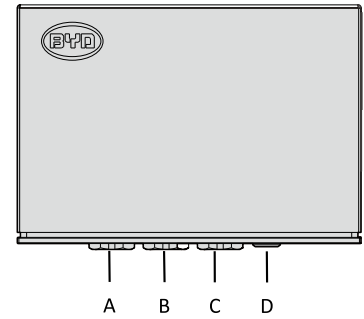
BMU is applicable for the BYD Battery-Box Premium LV system(s) (LVS 4.0, LVS 8.0, LVS 12.0, LVS 16.0, LVS 20.0, LVS 24.0 and LVL 15.4) ("Battery-Box"), and works as a control unit for the system(s).

**PRODUCT DESCRIPTION**

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

The WLAN 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: Ethernet port

D: Stop button and status LED

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**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**

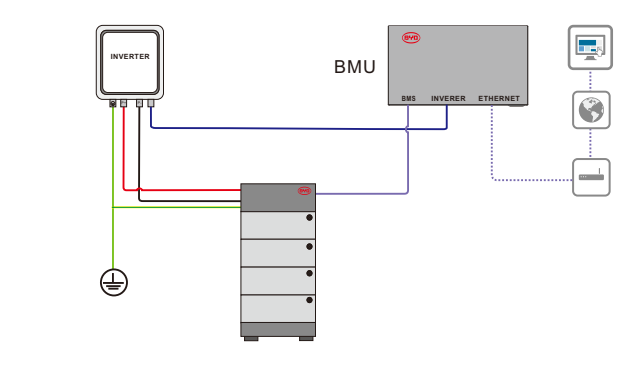
Communication	Ethernet/CAN/RS 485
Input voltage*	40-60 V
Input current	200 mA
Weight	2 kg
Dimensions (L×W×H)	222 mm×154 mm×59 mm
Ambient temperature in operation	-10°C to 50°C
Relative humidity (non-condensing)	5% to 95%
Degree of protection (in accordance with IEC 60529)	IP55

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

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**CONNECTION DIAGRAM**

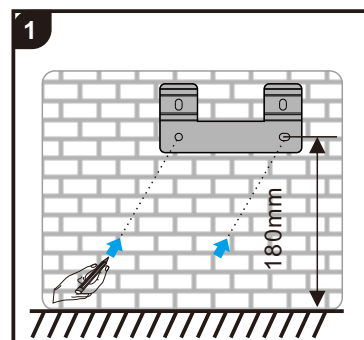
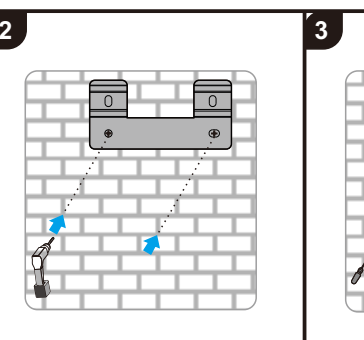
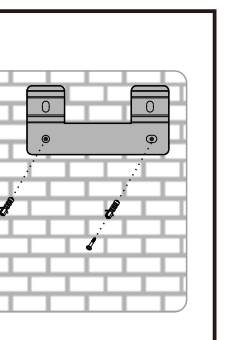


	BMU	SMA	STUDER	VICTRON	SELECTRONIC	SOLAREDGE	GOODWE
CAN H	4	4	4	7	1	4	4
CAN L	5	5	5	8	2	5	5

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

**MOUNTING AND CONNECTION**

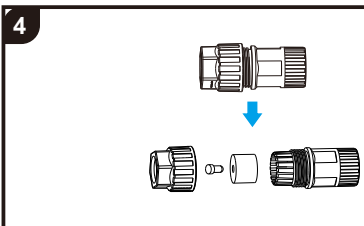
Install BMU on the wall or a rack. The recommended expansion screw size is M6×12. The minimum distance from the ground is 180 mm.

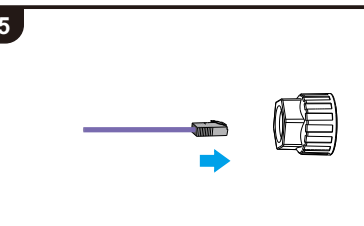
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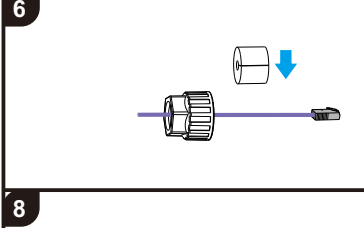
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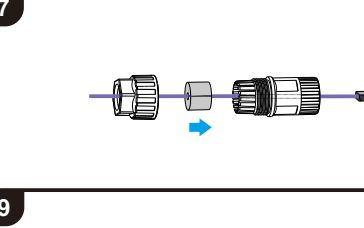
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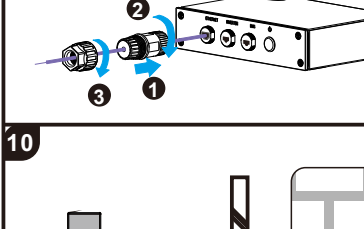
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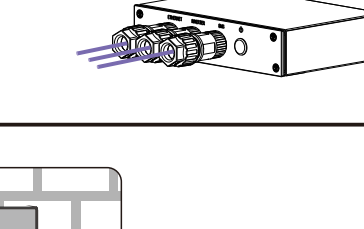
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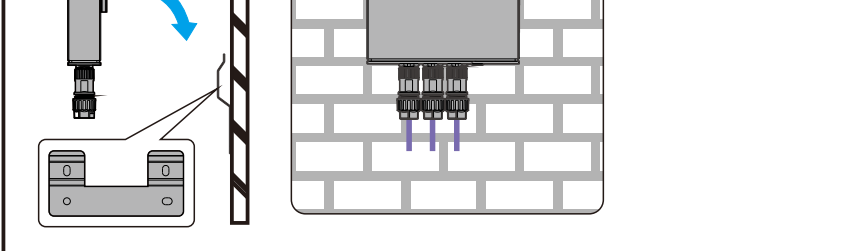
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**COMMISSIONING**

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


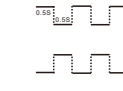
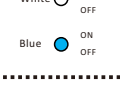
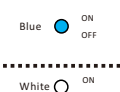

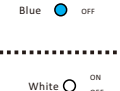

**UPDATING FIRMWARE**

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.

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**LED status**

Flashing white and blue alternately	 	The battery system is initiating.
Glowing white		Idle (the battery system is neither charging nor discharging).
Flashing white slowly		The battery system is charging.
Flashing white quickly		The battery system is discharging.
Flashing white and glowing blue		The battery system is discharging, and the SOC of Battery-Box is below 15%.
Flashing white and blue		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 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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书写纸 成品尺寸：148X210mm 风琴折 正反面彩色印刷