BYD Battery-Box Premium LV BMU -IP55 Instruction Manual

V1.6

VALIDITY

This document is valid for the BYD Battery-Box Premium LV BMU -IP55 (Battery Management Unit) (**"BMU"**) from firmware version 1.22.

INTENDED USE

BMU is applicable for the BYD Battery-Box Premium LV system(s)(LV FLEX, LV FLEX LITE, LVS, LVS LITE, LVL) (**"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

GET IT ON
Google play

Download on the
App Store

The WLAN name and password are on the label of BMU.
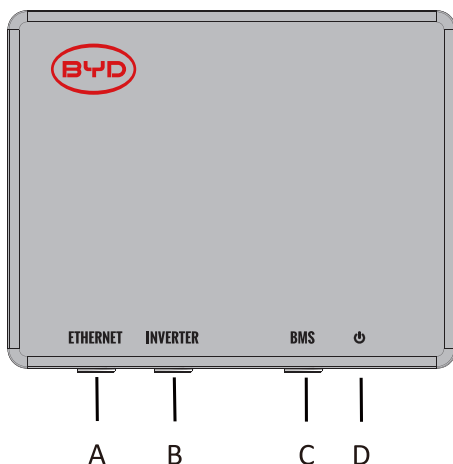
A: Ethernet port

B: RJ45 port for connection with an inverter

C: RJ45 port for connection with Battery-Box

D: LED Button

ETHERNET   INVERTER   BMS

A   B   C   D

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
● 3×Connectors
● 1×Hanger

TECHNICAL DATA

Communication	Ethernet/CAN
Input voltage*	40-60 V
Input current	200 mA
Weight	1.3 kg
Dimensions (L×W×H)	220 mm X 60 mm X 176 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
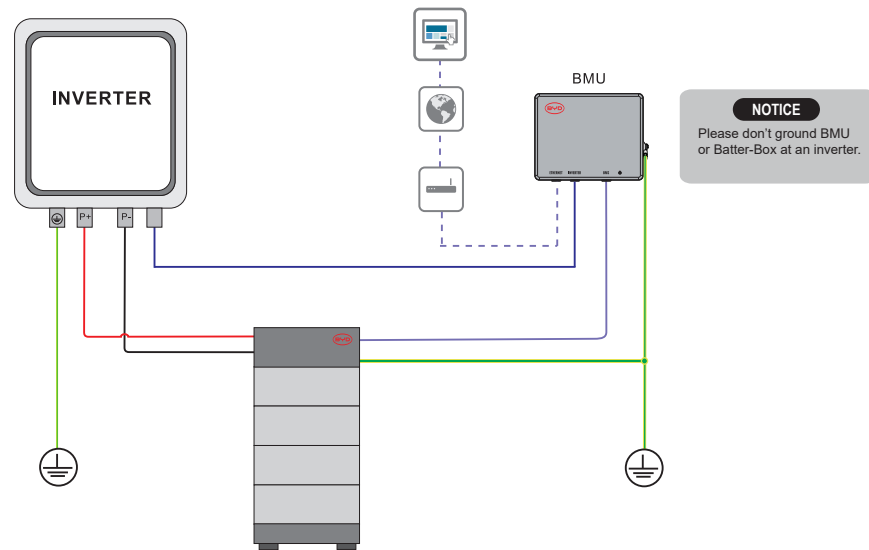
	BMU	SMA	STUDER	VICTRON	SELECTRONIC	SOLAREDGE	GOODWE	SUNGROW	SCHNEIDER	SOLIS	Deye
CAN H	4	4	4	7	1	4	4	4	14	4	4
CAN L	5	5	5	8	2	5	5	5	12	5	5

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 20 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 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.
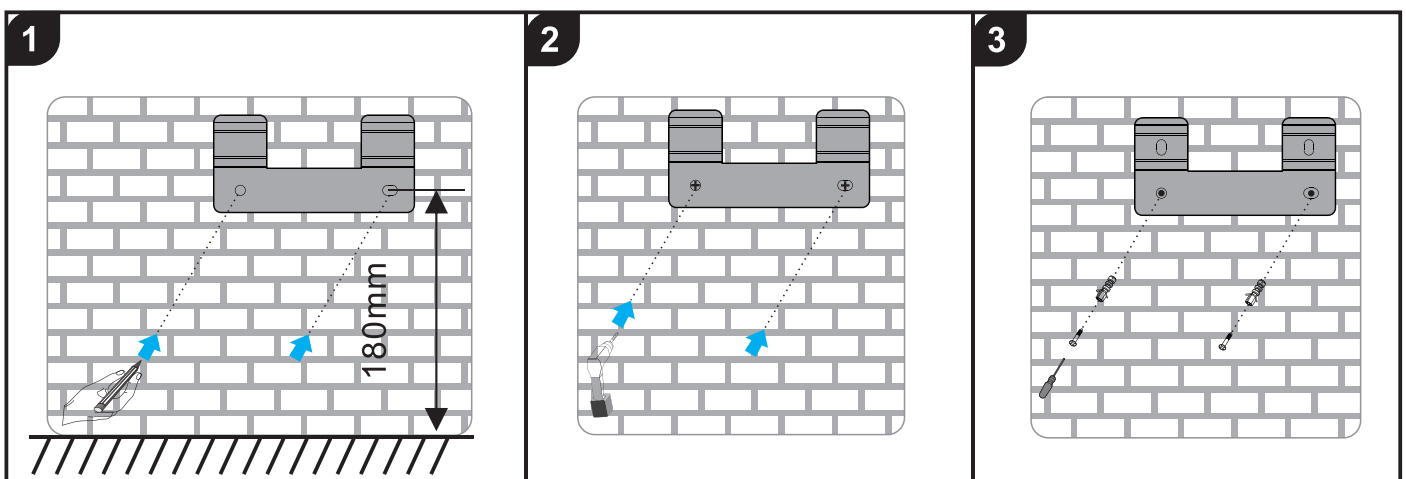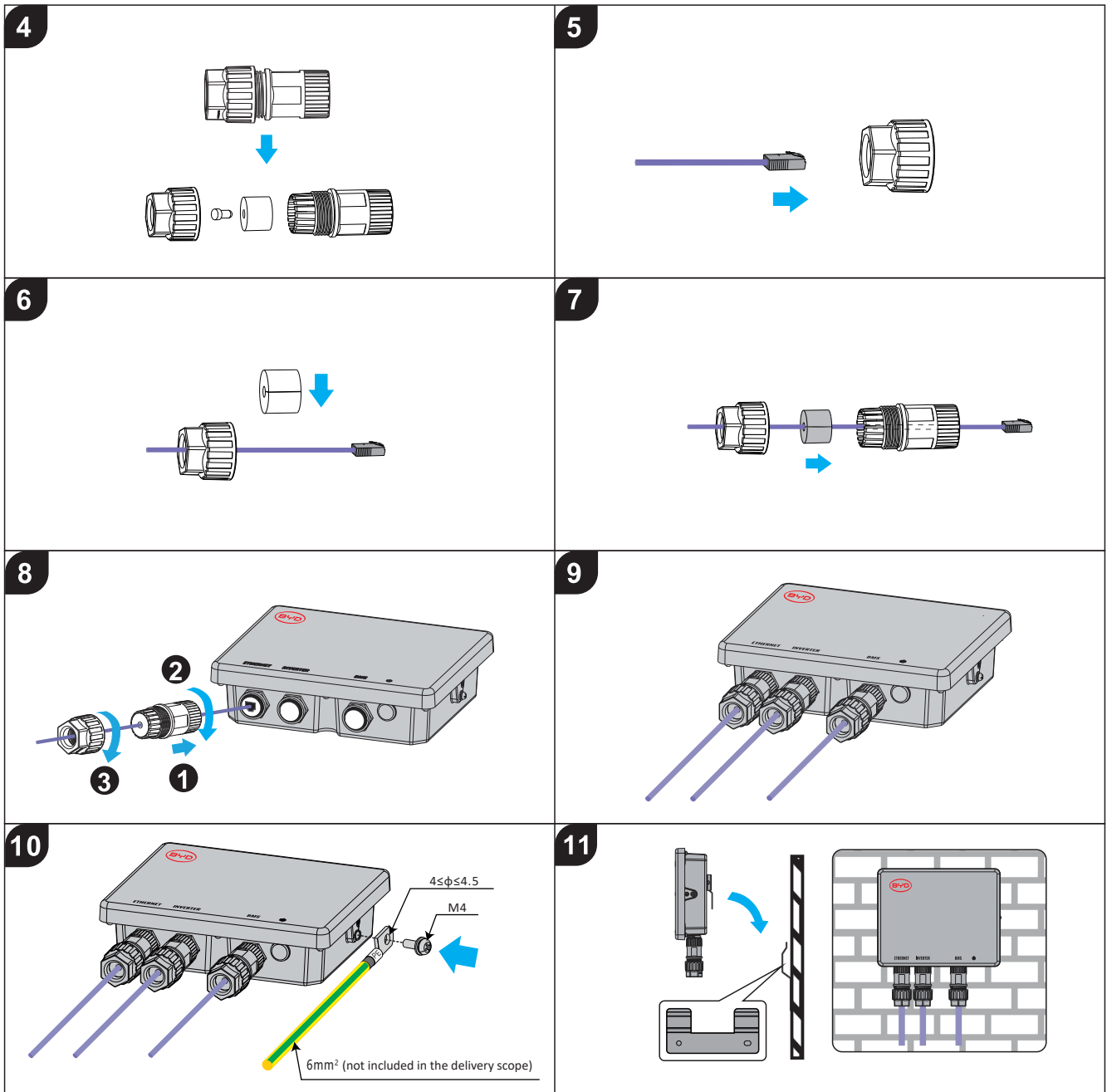
COMMISSIONING

1. Make sure an inverter, Battery-Box, and BMU are correctly connected.
2. Press the LED Button on Battery-Box for 3 seconds.
3. Refer to Battery-Box Operating Manual for further steps.
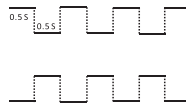
UPDATING FIRMWARE

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
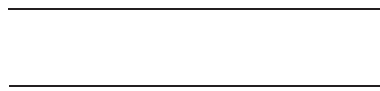
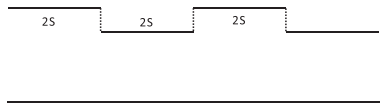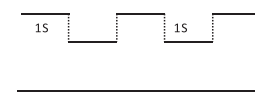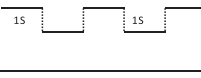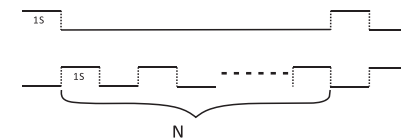| Flashing white and blue alternatively	White ◯ ON OFF / Blue 🔵 ON OFF	The battery system is initiating.
Static white	White ◯ ON OFF / Blue 🔵 ON OFF	Idle (the battery system is neither charging nor discharging).
Flash ing white slowly	White ◯ ON OFF / Blue 🔵 ON OFF	The battery system is charging.
Flashing 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**

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

DISPOSAL

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

CONTACT

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	https://twitter.com/BYD_BatteryBox
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