

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.

Be Connect

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

1

BYD

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.

2

BYD

CONNECTION DIAGRAM

	BMU	SMA	STUDER	VICTRON	SELETRONIC	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.

3

BYD

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.

4

BYD

LED status

Flashing white and blue alternately	White ON, Blue OFF	[Waveform]	The battery system is initiating.
Glowing white	White ON, Blue OFF	[Waveform]	Idle (the battery system is neither charging nor discharging).
Flashing white slowly	White ON, Blue OFF	[Waveform]	The battery system is charging.
Flashing white quickly	White ON, Blue OFF	[Waveform]	The battery system is discharging.
Flashing white and glowing blue	White ON, Blue ON	[Waveform]	The battery system is discharging, and the SOC of Battery-Box is below 15%.
Flashing white and blue	White ON, Blue ON	[Waveform]	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.

5

BYD

CONTACT

BYD Global Service
 bbxservice@byd.com
 Telephone: +86 755 8988888-47175
 Address: No.3009, BYD Road, Pingshan, Shenzhen, 518118, P.R.China
 www.bydbatterybox.com

Social media link
<https://www.facebook.com/BatteryBoxBYD/>
https://twitter.com/BYD_BatteryBox
<https://www.linkedin.com/company/byd-battery-box>

Australia	Alps Power Pty Ltd	Europe	EFT-Systems GmbH
	service@alpspower.com.au		service@eft-systems.de
	Telephone: +61 2 8005 6688		Telephone:
	Address: 14/47-51 Lorraine St Peakhurst NSW 221		+49 9352 8523999
	www.alpspower.com.au		+44 (0) 2037695998(UK)
			+34 91 060 22 67(ES)
			+39 02 8736883(IT)
			Address: Bruchtanenstraße 28, 63801 Kleinostheim, Germany
			www.eft-systems.de

South Africa	AFRIPLUS ENERGY GROUP (PTY) LTD	USA	EFT USA
	support@afriplusenergy.co.za		USservice@eft-systems.de
	Telephone: +27 21 140 3594		Telephone: +1(833) 338-8721
	Address: The Pavilion, Corner of Dock & Portswood Road, V&A WATERFRONT, 8001, CAPE TOWN		Social media link: www.eft-systems.de/us

Copyright © BYD Europe B.V. All right is reserved.

6

书写纸 成品尺寸：148X210mm 风琴折 正反面彩色印刷