



B-Box Pro 13.8

User Manual

Rev 1.0_July.2017

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BYD Lithium Battery Company Limited

TEL: 0755-8988 8888

FAX: 0755-8961 9653

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1 General Information

1.1 About this manual

This user manual introduces the B-Box product information, user guidance, safety caution items and normal failure and actions. Users can contact the after sales service center if any abnormal failure or urgent issues occur.

1.2 Target Group

This user manual applied to the B-BOX Pro 13.8.

1.3 Intend usage

The B-BOX can be used in household energy storage applications, including on/off-grid system. The B-BOX works with different inverter brands and the user should refer to the configuration list of approved inverter brands recommended by BYD..

1.4 B-BOX and B-Plus definition

BYD battery box product B-Box Pro 13.8 is defined as follows:

B-Box: Battery Box

B-Plus13.8: Battery unit with nominal capacity of 13.8KWh can be installed inside the cabinet as an energy storage module.

B-Box 13.8: Battery nominal capacity is 13.8 KWh (Includes 1 set of B-Plus 13.8)

1.5 Identifying the Product

The Type Label describes the product identification, which is attached to the product. For safe usage, the user must be well-informed of the contents in the Type Label. The Type Label includes:

Product Name:

Product Type/Nominal Capacity:

Nominal Voltage:

Max Current Discharge & Charge:

Ambient Temperature Range:

2 Safety

2.1 Safety precaution

Warning, notice and caution

Users are kindly requested to use the battery which is supplied by BYD Lithium Battery Company Limited in strict accordance with the datasheet and remarks include at the end of this document.

BYD Lithium Battery Co., Ltd. will not guarantee or accept liability for a product installed and operated not in accordance to the guidance manual and resulting in an accident.



WARNING

Do not crush the battery and always dispose according to safety regulations (Do not dispose in fire or water).

Recharge Battery at least every 6 months (when in storage).

Once discharged, recharge battery within 7days. If there is no charging within 7days, please power off the battery and disconnect it from the system.

Do not expose to temperatures above 50°C, and keep out of direct sunlight.

Ensure secure grounding. Do not reverse the front panel.

Do not short, reverse polarity or connect in series.

Disconnect from power and load before maintenance.

May only be operated by qualified professionals.

Do not put one battery (without package) on another.

In the process of transportation and storage, the goods are not allowed be stacked at a height or layers above the specification.

B-BOX product only can be used in home energy storage application, and it is not allowed for life-sustaining medical devices and automotive application.



NOTICE

Inadvertent operation of damaged B-Box can lead to a dangerous situation that may result in serious injury due to electrical shock. B-Box can only be operated when it is technically faultless and in an operationally safe state.

Regularly check the B-Box for visible damage. Make sure that all safety equipment is freely accessible at all time. If B-Box is damaged, do not touch it.

Please contact BYD after service supplier if a significant event message displays on LCD or APP of inverter.



CAUTION

Li-ion battery inside. When disassembling the system, do not intentionally short the positive (+) and negative (-) terminals with metallic objects.

All works on system and electrical connections must be carried out by qualified personnel only. B-Box provides an emergency switch when for urgent situation.

A potentially hazard circumstance such as excessive heat or electrolyte mist may occur due to incorrect operation, damage or abuse. If the safety precautions and the warning messages described are not fully understood, or if you have any questions, please contact after service for guidance. The safety section may not include all regulations for your region.

Personnel working with B-Box must review applicable federal, state and local regulations as well as the industrial standards regarding this product.

When transport the system with package type, remove the battery from cabinet and transport them separately.

2.2 Safety guidelines for installation



CAUTION

Li-ion battery (energy storage unit) inside. When assembling the system, do not intentionally make a short connection between the positive (+) and negative (-) terminals of the battery box with a metallic object.

All works on the B-Box and electrical connections must be carried out by qualified personnel only. B-Box provides a safe source of electrical energy when operated as intended and as designed.

Potentially hazardous circumstances such as excessive heat or electrolyte mist may occur under improper operating conditions, damage, misuse and abuse. The following safety precautions and the warning messages described in this section must be observed. If any of the following precautions are not fully understood, or if you have any questions, contact customer service for guidance. The Safety Section may not include all regulations for your region; personnel working with B-Box must review applicable federal, state and local regulations as well as the industrial standards regarding this product.

Installation personnel cannot wear watches, etc., to avoid short circuit and accidental damage.



CAUTION

Due to heavy weight of BYD B-Box Pro 13.8, please use strong package and safety protection during transportation, and make sure to the safety to avoid accidental damage

3 Technical parameters

| B-Box Pro 13.8 | |
|---|--------------------------------|
| Battery Type | Lithium Iron phosphate battery |
| Battery module | B-Plus13.8 |
| Nominal Battery Energy | 13.8 |
| Output power(KW) | Max 12.8 |
| Nominal voltage(V) | 51.2 |
| Ambient Temperature Range(°C) | -10~+50 |
| Communication | RS485/CAN |
| Cabinet Net Dimension(W*D*H mm)(Without ground feet) | 650* 550* 800 |
| Net Weight (Kg) | 175 |
| IP level | IP20 |

When B-BOX works in different temperatures, charge and discharge current will be adjusted automatically, detail parameters setting please refer to below table:

| Parameter setting of charge current in various temperature | |
|---|-------------------|
| Protect temp./Resume temp.(°C) | Normal current(A) |
| -7~-2 | 0.06C*N |
| 2~12 | 0.12C*N |
| 12~50 | 0.7C*N |
| Remark: 1.Effective time is 2mins when change from one temperature range to another.) 2.N=B-Plus13.8 battery group quantity | |
| Discharge current control with temperature | |
| Protect temp./Resume temp.(°C) | Normal current(A) |
| -20~50/(-15-50) | 0.7C*N |
| Remark: 1.N= B-Plus13.8 battery group quantity | |

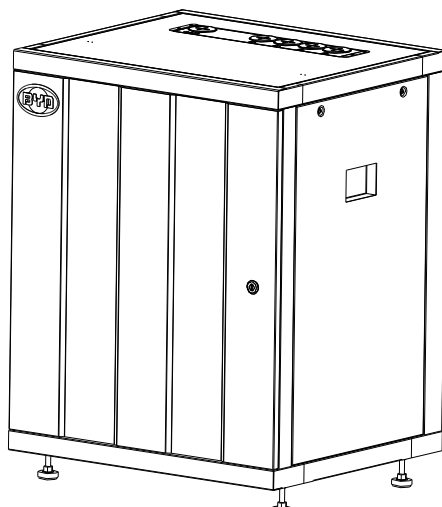
4 Technical noun explanation

| No. | Terms | comment |
|-----|-----------------|--|
| 1 | Discharge | Battery output power for load |
| 2 | Charge | Battery power supply(such as DC charger) |
| 3 | Full charged | Battery had been full charged, SOC is 100%. |
| 4 | Idle | Battery is on status of neither charge nor discharge and has not been fully charged. |
| 5 | Shutdown mode | Power off |
| 6 | SOC | State of Charge |
| 7 | SW | Software |
| 8 | HW | Hardware |
| 9 | Battery voltage | The voltage between B+/B- |
| 10 | Pack voltage | The voltage between P+/P- |
| 11 | Cell voltage | Single cell voltage |
| 12 | Failure | Battery or BMS are broken, and need to change new unit |
| 13 | Alarm | Battery will stop charge or discharge immediately |
| 14 | Protect | Battery stops charging or discharging (e.g. cell is over voltage), it is resumable. |
| 15 | Over discharged | Battery module or batteries overvoltage, need recharge the battery timely. |

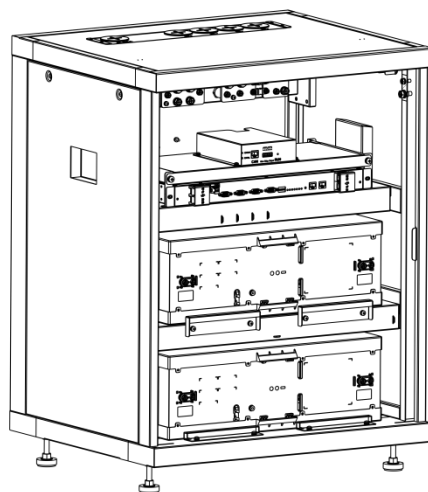
5 Product overview

5.1 B-BOX System brief introduction

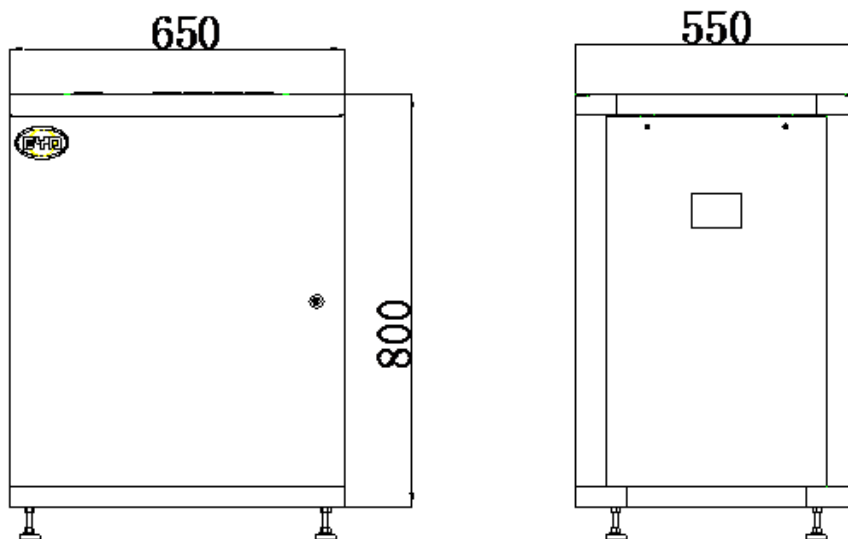
B-Box is the short name for battery box, the energy storage part in the electric power system of a household, and the B-box carries BYD's lithium batteries offering excellent performance. There are 2 pcs battery modules in each box, and the box supports parallel connection to expand capacity from 13.8KWh to 409KWh, which can meet various capacity requirements for customers.



External drawing



Internal drawing



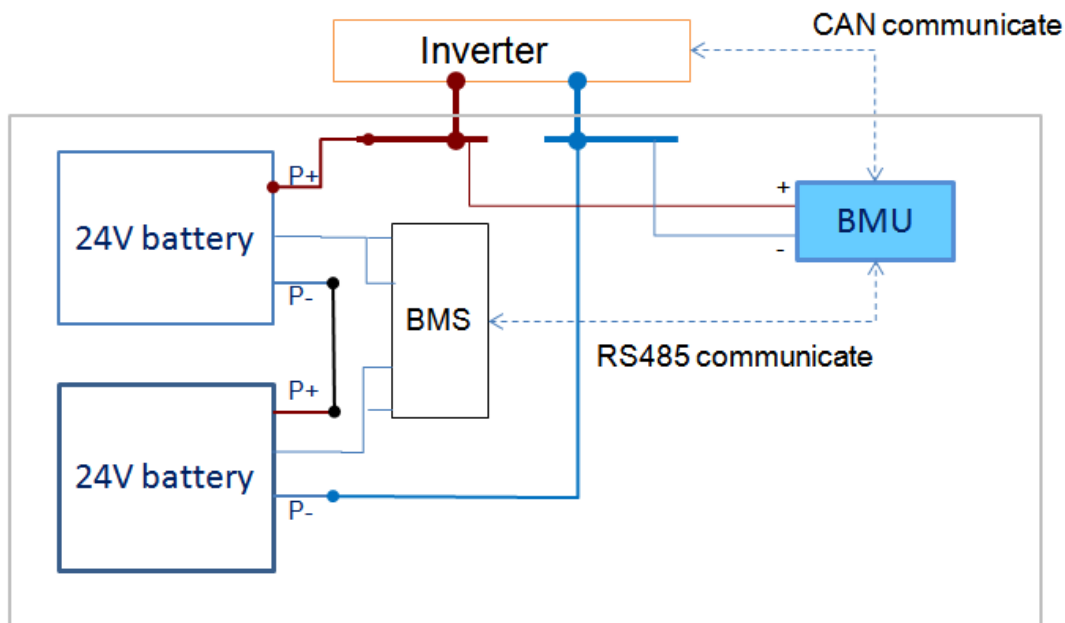
Structure dimension drawing

5.2 B-BOX configuration table

| No. | Component | Name | Description |
|-----|-----------|---------------|---|
| 1 | Cabinet | B-Box Cabinet | The Cabinet is used to install the B-Plus 13.8 and provide DC output(Each cabinet can install max 1set of B-Plus13.8) |
| 2 | Battery | B-Plus13.8 | Battery modules with 51.2V 270Ah, BYD's P/N is: 8S-T. |
| 3 | BMS | BMS48250 | Battery management system. Manage battery and sends battery information to BMU. |
| 4 | BMU | BMU | Battery management unit. Provides communication with external equipment. |

Configuration list

5.3 B-BOX System diagram



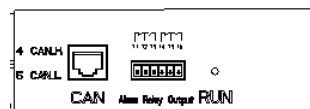
System diagram

5.4 General introduction of BMU

BMU is battery management unit which integrated in the cabinet, its function is to manage the battery's charge and discharge, select information from battery and report to inverter.

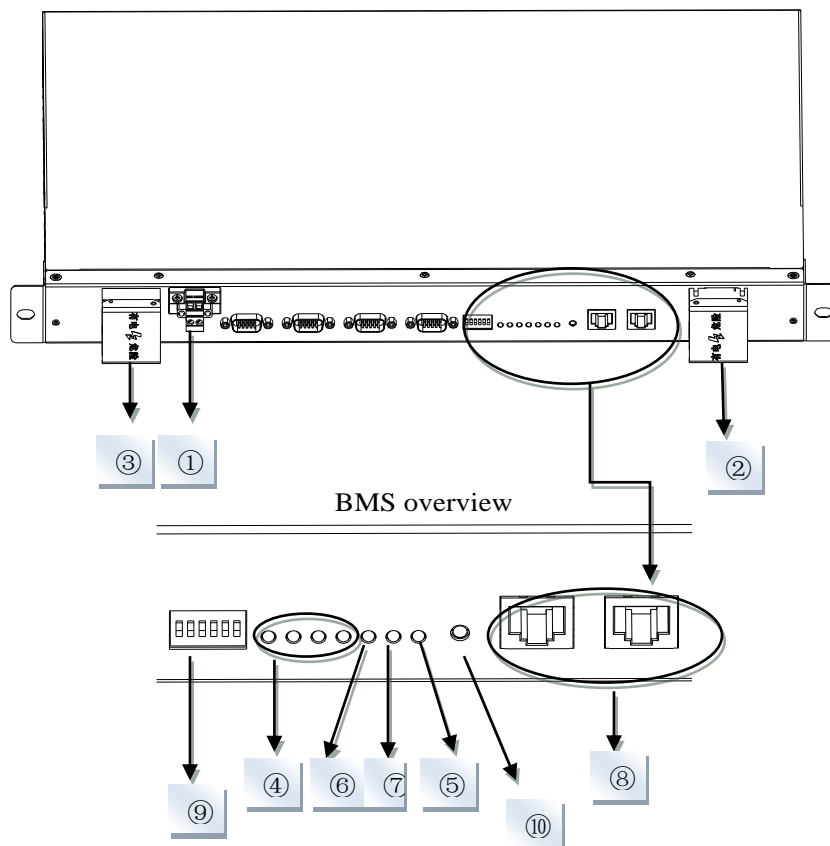
Main functions:

- ✓ CAN /RS485 communicate with inverter
- ✓ RS485 communicate with battery/BMS
- ✓ Dry contact terminal
- ✓ Other Communication interface for maintenance
- ✓ Charge and discharge management



5.5 General introduction of BMS48250

BMS is the name of battery management system which is designed for BYD lithium battery management.



Display and communicate interface

| No. | Interface | Mark | Function |
|-----|----------------|----------------|---|
| ① | B+ | B+ | Connects battery positive cable to power the BMS |
| ② | B- | B- | Positive terminal of BMS |
| ③ | P- | P- | Negative terminal of BMS |
| ④ | SOC LED | SOC | Indicates state of capacity of battery |
| ⑤ | RUN LED | RUN | Indicates the Plus is running status |
| ⑥ | ERR LED | ERR ADDR | Indicates error status |
| ⑦ | Alarm LED | Alarm | Indicates alarm status |
| ⑧ | RJ45 terminal | RS485 | Communication ports |
| ⑨ | Address | ADDR | When parallel connection, address needs setting. |
| ⑩ | Reset (ON/OFF) | Reset (ON/OFF) | Activating battery when no external power add on battery. |

5.6 Operating environment

Operating environment parameters

| No. | Item | Requirement | | | Unit | Remark |
|-----|-------------------------|-------------|---------|------|------|--------|
| | | Min. | Typical | Max. | | |
| 1 | Discharging temperature | -20 | 25 | 55 | °C | |
| 2 | Charging temperature | -10 | 25 | 50 | °C | |
| 3 | Relative humidity | 5 | | 95 | % | |
| 4 | Absolute humidity | 0.26 | | 25 | g/m3 | |
| 5 | Elevation | - | 2000 | - | m | |
| 6 | IP level | | | | 20 | |

5.7 BMS address switch introduction

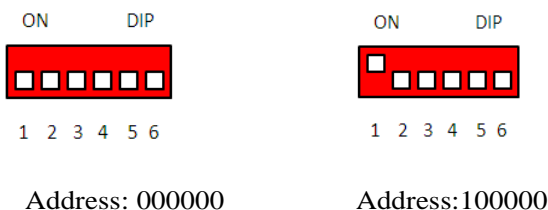
After finished the battery installation, installer should setup battery address through “ADDR” switch.

“ADDR” switch introduction:

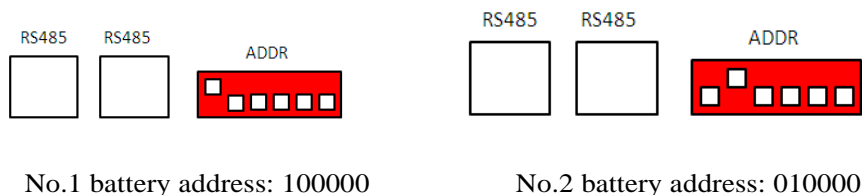
Function: Communication between battery and BMU, BMU will communicate with external equipment using CAN communication.

Each DIP switch definition:

There are 6 bit switches, keep the switch on down side means “0”, turn up the switch to “ON” means “1”.



For example: when two battery in using, “ADDR” setting:



Please refer to the configuration list in Appendix1.

Notice: Make sure that the highest address of BMS connecting to BMU when communicating with inverter.

6 Cleaning and maintenance

6.1 Cleaning



CAUTION:

When user needs to clean the B-BOX, please power off the system first.

Periodic cleaning is recommended for the B-BOX system. If the enclosure is in a dirty condition, please use a soft and dry brush or a vacuum to remove the dirt.

Do not use liquids such as solvents, abrasives or corrosive liquids in the enclosures.

6.2 Maintenance

6.2.1 Recharge requirement at normal storage

The B-BOX should be installed in a position with the temperature range of $-10^{\circ}\text{C} \sim +50^{\circ}\text{C}$. The load-bearing of battery's package is less than 280Kg, so stack more than 2 package is not allowed. When the battery stored for a long time, need a regular maintenance according to the following table. Charge the battery with current of 0.1C (25A) for 1 hour when maintenance.

Storage parameters under different storage conditions-1

| Storage environment temperature | Relative humidity of storage environment | Storage time | SOC |
|---------------------------------|--|------------------|----------------------------------|
| Below -20°C | / | prohibit | / |
| $-20 \sim 25^{\circ}\text{C}$ | 5%~70% | ≤ 12 months | $30\% \leq \text{SOC} \leq 60\%$ |
| $25 \sim 35^{\circ}\text{C}$ | 5%~70% | ≤ 6 months | $30\% \leq \text{SOC} \leq 60\%$ |
| $35 \sim 45^{\circ}\text{C}$ | 5%~70% | ≤ 3 months | $30\% \leq \text{SOC} \leq 60\%$ |
| Above 45°C | / | prohibit | / |

6.2.2 Recharge requirement when over discharge during storage

When in storage, if the module is over discharged, the module will be damaged after several days if the module has not been charged in time.

Storage parameters under different storage conditions-2

| Storage environment temperature | Storage time |
|--|---------------------|
| -20~25°C | ≤15 days |
| 25~45°C | ≤7 days |

7 Solve special situations

7.1 Battery over discharged maintenance

When battery over discharged that caused by black out, continuously rainy day, etc, the battery will still provide limited energy, users should pay attention to the backup time of the battery.

7.2 Force Majeure

Catastrophic accidents, including lightning, floods, earthquakes, fires and other disasters, can bring unpredictable damage to the whole system.

8 B-BOX configuration list with different inverter

8.1 B-BOX configuration list with SMA sunny island-On/Off grid

| 1 Phase on Grid | | |
|---|------------|----------|
| Inverter Type | B-Box 13.8 | Cabinets |
| SI 3.0M | ≥1 | ≥1 |
| SI 4.4M | ≥1 | ≥1 |
| SI 6.0H | ≥1 | ≥1 |
| SI 8.0H | ≥1 | ≥1 |
| Remark: Maximum B-Box13.8 quantity is 32. | | |
| 3 Phase on Grid | | |
| Inverter Type | B-Box 13.8 | Cabinets |
| SI 3.0M | ≥3 | ≥1 |
| SI 4.4M | ≥4 | ≥1 |
| SI 6.0H | ≥4 | ≥1 |
| SI 8.0H | ≥4 | ≥1 |
| 1 Phase off Grid | | |
| Inverter Type | B-Box 13.8 | Cabinets |
| SI 3.0M | ≥3 | ≥1 |
| SI 4.4M | ≥3 | ≥1 |
| SI 6.0H | ≥5 | ≥2 |
| SI 8.0H | ≥5 | ≥2 |
| 3 Phase off Grid | | |
| Inverter Type | B-Box 13.8 | Cabinets |
| SI 3.0M | ≥8 | ≥2 |
| SI 4.4M | ≥8 | ≥2 |
| SI 6.0H | ≥12 | ≥3 |
| SI 8.0H | ≥12 | ≥3 |
| Remark: Maximum B-Box13.8 quantity is 32. | | |

8.2 B-BOX configuration list with GOODWE ES-On/Off grid

| 1 Phase on Grid | | |
|-----------------|------------|----------|
| Inverter Type | B-Plus 2.5 | Cabinets |
| 3.6kW | ≥1① | ≥1 |
| 4.6kW | ≥1① | ≥1 |

| 1 Phase off Grid | | |
|------------------|------------|----------|
| Inverter Type | B-Plus 2.5 | Cabinets |
| 3.6kW | ≥2 | ≥1 |
| 4.6kW | ≥2 | ≥1 |

Remark: Maximum B-Box 13.8 quantity is 32

①This configuration is only for self-consumption application

8.3 B-BOX configuration list with GOODWE BP-On grid

| 1 Phase on Grid | |
|-----------------|------------|
| Inverter Type | B-Box 13.8 |
| 2.5kW | ≥1 |

Remark: Maximum B-Box 13.8 quantity is 32

8.4 B-BOX configuration list with Solax -On grid

| 1 Phase on Grid | | |
|-----------------|------------|---------|
| Inverter Type | B-Plus 2.5 | Cabinet |
| SK-SU 3000 | ≥1 | ≥1 |
| SK-SU 3700 | ≥1 | ≥1 |
| S K-SU 5000 | ≥1 | ≥1 |

8.5 B-BOX configuration list with Victron Quattro- On/Off grid

| 1 Phase on Grid | |
|-----------------|-----------|
| Inverter Type | B-BOX13.8 |
| 5KVA | ≥1 |
| 8KVA | ≥1 |

| | |
|-------|----------|
| 10KVA | ≥ 1 |
|-------|----------|

| | |
|-------|----------|
| 15KVA | ≥ 1 |
|-------|----------|

1 Phase off Grid

| | |
|---------------|-----------|
| Inverter Type | B-BOX13.8 |
|---------------|-----------|

| | |
|------|----------|
| 5KVA | ≥ 1 |
|------|----------|

| | |
|------|----------|
| 8KVA | ≥ 2 |
|------|----------|

| | |
|-------|----------|
| 10KVA | ≥ 2 |
|-------|----------|

| | |
|-------|----------|
| 15KVA | ≥ 3 |
|-------|----------|

3 Phase on Grid

| | |
|---------------|-----------|
| Inverter Type | B-BOX13.8 |
|---------------|-----------|

| | |
|------|----------|
| 5KVA | ≥ 1 |
|------|----------|

| | |
|------|----------|
| 8KVA | ≥ 2 |
|------|----------|

| | |
|-------|----------|
| 10KVA | ≥ 2 |
|-------|----------|

| | |
|-------|----------|
| 15KVA | ≥ 3 |
|-------|----------|

3 Phase off Grid

| | |
|---------------|-----------|
| Inverter Type | B-BOX13.8 |
|---------------|-----------|

| | |
|------|----------|
| 5KVA | ≥ 3 |
|------|----------|

| | |
|------|----------|
| 8KVA | ≥ 5 |
|------|----------|

| | |
|-------|----------|
| 10KVA | ≥ 6 |
|-------|----------|

9 Normal issues and solutions

9.1 Normal alarm displayed on the SRC of SMA sunny island and the solution

| SMA SRC | Reason | Solution |
|----------------------|---|---|
| F221 | External Alarm-Invalid Bat Type | Reset battery type to "Li" on SRC. |
| F920(XA01General) | 1.The battery has failed to communicate with the BMU; 2.RS485 communication between the BMU and the battery is failed; | 1.Inspect whether the RS485 communication cable has been connected correctly and securely. 2.Inspect DIP switch settings according to the setting of DIP switch guidance in user manual; 3.Change BMU in cabinet; |
| F921(XA02DcHiVolt) | External Alarm - Battery High Voltage | |
| F922(XA03DcLoVolt) | External Alarm - Battery Low Voltage | If the red led of the BMS is on, please contact the service provider to change the battery. If not, check the system settings according to the guide. |
| F923(XA04DcHiTmp) | External Alarm - Battery High Temp | |
| F924(XA05DcLoTmp) | External Alarm - Battery Low Temp | |
| F925(XA06DcHiTmpC) | External Alarm - Battery High Temp Charge | |
| F926(XA07DcLoTmpC) | External Alarm - Battery Low Temp Charge | |
| F927(XA08DcHiCur) | External Alarm - Battery High Current Discharge | |
| F928(XA09DcHiChgCur) | External Alarm - Battery High Current Charge | |
| F930(XA11Short) | External Alarm - Short circuit | 1.Power off; 2.Inspect if there is short connection of cable between P+&P-; |

| | | | | |
|-------------------|------------------------------------|--|--|---|
| | | | | 3.If short connection is confirmed, please reconnect cable correctly; 4.Restart battery; |
| F931(XA12Bms) | External Alarm - BMS internal | | | If the red led of the BMS is on, please contact the service provider to change the battery. If not, check the system settings according to the guide. |
| F932(XA13CellBal) | External Alarm - Cell imbalance | | | |
| F952 | External Alarm -Ext BMS Timeout | | | 1.Inspect whether the CAN communication cable has been connected correctly and securely; 2.Change BMU in cabinet; |

9.2 Normal alarm displayed on the APP of GOODWE and the solution

| APP of GOODWE | Reason | Solution |
|--|--|---|
| BMS status: Battery communication fail | Inverter and BMU communication failure | 1.Inspect whether the CAN communication cable has been connected correctly and securely 2.Change BMU in cabinet; |

9.3 Normal alarm displayed on the screen of Solax and the solution

| Screen of Solax | Reason | Solution |
|-----------------|--|---|
| BMS LOST | Inverter and BMU communication failure | 1.Inspect whether the CAN communication cable has been connected correctly and securely 2.Change BMU in cabinet; |

9.4 Normal alarm display on the BMU of B-BOX and the solution

| LED of the BMU | Reason | Solution |
|----------------|--|--|
| Flash 1 time | Inverter and BMU communication failure | 1. Inspect whether the CAN communication cable has been connected correctly and securely 2. Change BMU in cabinet; |
| Flash 2 times | Battery not found | Check if the BMU and first battery connected correctly and securely |
| Flash 3 times | Cell parts not found | Check for battery capacity lights in the form of the Lantern show, check the corresponding battery lines of communication, and the address is set correctly. |
| Flash 4 times | Any battery failure | Check if the battery light is lighting, if so, please contact your Installer to replace the battery. |

9.5 Normal alarm display on BMS and solution

| B-Plus display info | | Reason | Solution |
|---------------------|--|--|---|
| LED | Yellow led(Alarm) blinks for 0.5Hz, other led is off ; | Battery has powered off abnormally; | Press ON/OFF button for 2-3 seconds to restart the battery, If the battery cannot be resumed, contact the service provider; |
| | Flashing Lantern (lantern and alternate capacity display, 10S cycle) | Communication connection timeout | Check the communication cable |
| | 1/3 and 2/4 flashing | Updating status | If you are not updating the firmware, reset the battery. |
| | Yellow led (Alarm) is normally on | 1time Under voltage (BAT or CELL) | Automatically resume |
| | 1. press on/off button 1S release, hear a short buzzer sound; | 2times Over charge | Automatically resume |
| | 2.run lights stay lit, ALM by flashing lights, showing alarm code; | 3times Low temperature charge over-current | Automatically resume |
| | | 4times Charge short circuit | Automatically resume |
| | | 5times Discharge short circuit | Automatically resume |
| | | 6times Parallel short circuit | Automatically resume |
| | | 7times Discharge over-current protection | Automatically resume |
| | | 8times High temperature protection | Automatically resume |
| | | 9times Low temperature protection | Automatically resume |
| | | 10times PACK over voltage protection | Automatically resume |
| | Red led (Err) is normally | 1time Voltage sensor failure | Change the battery |

| | | | | |
|--------|--|--------|---|---|
| | on | 2times | Temperature sensor failure | Change the battery |
| | 1) press the on/off button press for 1S, release, hear short buzzer sound; | 3times | Charging circuit failure | Change the battery |
| | | 4times | Discharge circuit failure | Change the battery |
| | 2) run LED is lighting, ERR by flashing lights, showing alarm code; | 5times | Batteries failure | Change the battery |
| | | 6times | 536 communication failure | Change the battery |
| Buzzer | 15S for the cycle, each time the buzzer number of successive rings | 4times | Reverse, short circuit | 1.Power off; 2.Inspect short/reverse connection of cable between P+&P-; 3.If short/reverse connection is confirmed, please reconnect cable correctly; 4.Restart battery; |
| | | 3times | Batteries failure | Change the battery |
| | | 2times | Voltage sensor failure、 Temperature sensor failure | Change the battery |
| | | 1time | Charging/Discharge circuit failure | Change the battery |

10 Warranty

BYD provides warranty only when the product is installed and used according to the description of user manual / installation manual / warranty letter.

11 Login in after service web

In order to get prompt after service after installation, please login your B-BOX information in our after service online portal:

For technical problems or inquiries for use, please contact our service company.

The following information is required for timely customer service.

Product type

Serial Number

Connected PV module type and number

Option equipment

Any problems please contact us by below address:

Contact us:

China

BYD LITHIUM BATTERY Co., LTD

Customer Service Mailbox: eubatterygrp@byd.com

Telephone: +86 0755 89888888

Address: No.1, Baoping Road, Baolong Industrial Town Longgang Shenzhen, 518116, P.R. China

Germany

EFT Systems GmbH

Customer Service Mailbox: info@eft-systems.de

Telephone: +49-9352 8523999

Address: Buchenstraße 37, 97816 Lohr am Main, Germany

Australia

Alps Power Pty Ltd

Customer Service Mailbox: service@alpspower.com.au

Telephone: +61478 140 287

Address: U201 15Chatham Road West Ryde NSW 2114 Australia