



# **BYD Battery-Box** LV5.0 Battery Module **Ouick Start Guide**

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#### **Configure the Battery System**

LV5.0 is equipped with Bluetooth and WIFI function. Through the mobile APP, you can realize intelligent battery management, including remote data monitoring, firmware upgrade and troubleshooting.

Download the APP " BYD Energy"



For detailed configuration steps, please refer to the user manual and APP instructions, Website: www.bydenergy.com

# Scalability

One tower could be made up by 1 to 4 battery modules, and 8 towers could be connected in parallel at most.



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#### Safety

#### **IMPORTANT SAFETY INSTRUCTIONS**

The battery module has been designed and tested in accordance with international safety requirements. However, in order to prevent personal injury and property damage and ensure long-term operation of the battery module, please read this section carefully and observe all safety information at all times.

#### Battery Module Leakage

If the battery modules leak electrolytes, contacting with the leaking liquid or gas should be avoided. The electrolyte is corrosive, and the contact may cause skin irritation and chemical burns. If one is exposed to the leaked substance, follow these steps:

Accidental inhalation: Evacuate the contaminated area, and seek medical help immediately. Eye exposure: Rinse eyes with flowing water for 15 minutes and seek medical help immediately.

Skin contact: Wash the affected area thoroughly with soap and water and seek medical help immediately. Accidental ingestion: Induce vomiting and seek medical help immediately.

#### Fire fighting Measures

The battery modules may catch fire when it is put into the fire. In case of fire, please make sure that an ABC or carbon dioxide extinguisher is nearby. Water cannot be used to extinguish the fire.

Full protective clothing and self-contained breathing apparatus are required for the firefighters to extinguish the fire.

#### Battery Modules Handling and Storage Guide

- The battery module and its components should be protected from damage when transporting and handling.
- Do not impact, pull, drag, or step on the battery module. • Do not insert unrelated objects into any part of the battery module.
- Do not throw the battery module into a fire. • Do not soak the battery module in water or seawater.
- Do not expose to strong oxidizers.
- Do not short circuit the battery module.
- The battery module cannot be stored at high temperatures (  $\geq$  50°C).
- The battery module cannot be stored directly under the sun.
- The battery module cannot be stored in a high humidity environment.
- Do not use the battery module if it is defective, or appears cracked, broken or other wise damaged, or fails to operate. · Do not attempt to open, disassemble, repair, tamper with, or modify the battery modules. The battery modules are not
- user-serviceable.
- Do not use cleaning solvents to clean the battery module.

# **Battery Module Overview**

#### Structure Dimension Drawing



\* 3. PE Link must be used for more than one battery module.

# **Requirements for Installation**

#### Scope of Delivery











Safetv Gear









### **Preparation for Wiring**



# **Floor Installation**



## Operation

#### Requirements:

1. After the battery and inverter are installed, the equipment starts up in this order: Battery →Switch\*→ Inverter. \* Turn on the air switch between battery and inverter if there is

any. Press the button, after 1s, the battery module or tower will be activated. Then they will match automatically. The green LED light indicates that the battery runs normally.

2. Press the button for around 2~3s to shut down the equipment, the equipment shuts down in this order: Inverter

→ Batterv→ Switch<sup>\*</sup>

\* Turn off the air switch between battery and inverter if there is any.



# Battery Module







**LED Signals** 

Module

Any Module

Red light f The light go

Orange lig Constant

Red light f

The light go

Slave

# **SET-UP Topology**



Normal
Status Description
Idle / BMS firmware updating
Charging
Discharging
Power on after pressing any battery switch button for 1s
Shutdown after pressing any battery switch button for 2~3s

Abnormal	
Indicator Status	Status Description
Orange light flashes continuously	Battery-inverter communication timeout Battery to battery communication timeout
Constant red	Battery failure, shutdown after a period of time Slave shutdown due to failure, system shutdown delayed for 7 days
	Note: Please Contact with BYD local after-sales service as soon as possible
Red light flashing	Battery protection, shutdown in a short-time
The light goes out directly	Failure causes system shutdown
Orange light flashes continuously	Battery to battery communication timeout
Constant red	Battery failure, shutdown after a period of time
Red light flashing	Battery protection, shutdown in a short-time
The light goes out directly	Failure causes battery shutdown