User Manual of Chargers

BYD Battery-Box H 6.4-11.5, B-Plus 1.28

Version 1.0

1. Introduction

This is a simple manual for the charger, which is used to charge battery module of BYD Battery-Box H 6.4-11.5 products. It will utilize power from grid and store it in the battery module. So this is specialized for specific battery modules, if you force it to charge similar battery, it will cause potential risks.

2. Connection

2.1 Check List

Overview of package list:

Name	Description	picture
Power Cable	Power cable, this is used to connect grid and charger, it can withdraw energy from grid to power itself and charge the battery.	
Wire	This wire has two parts, used to communicate with and power the battery module.	
Charger	Charger is used to charge battery modules.	
Block	Block is used to form a circuit loop for battery module.	

2.2 Connection with battery modules and grid

Plug the block into the bottom of battery module, and connect the wire between the Charging system and the battery module as below:

Connect the power cable between grid and charger:

3. Charge Method

Turn on the switch on the charger, LCD panel will be lighted and set the ChgSoc value and choose Start choice as "Yes", you can choose to charge a battery module to the appointed SOC. For detailed operating methods, please refer to Part 5.

When the green led is flickering continuously, battery module is charging.

When the green led is on without flickering, battery module is fully charged.
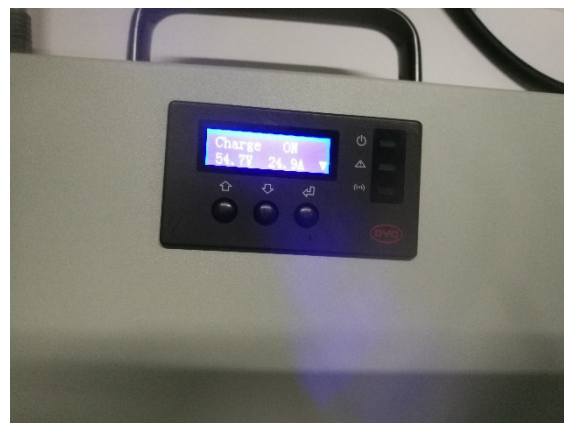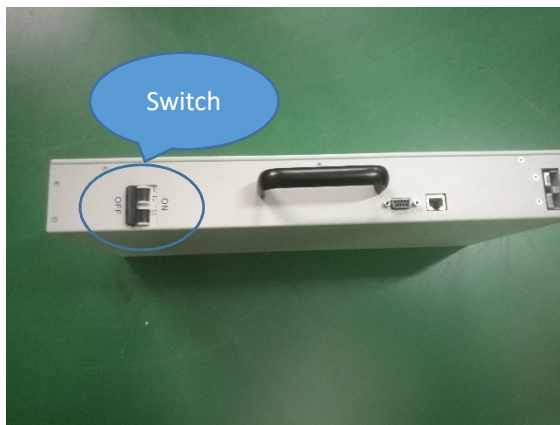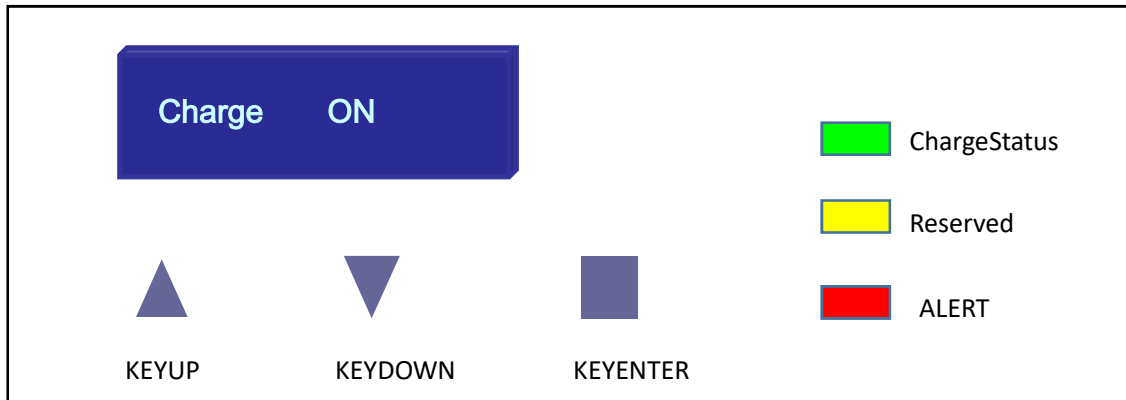

4. Charge Warning

When the buzzer is ringing and the red led is on, it means that something is wrong with the whole system.

Turn to LCD menu to check which part is wrong. And you can turn to part 5 for more details.

5. LCD MENU Introductions

5.1. The whole LCD panel is displayed as below:

(1) Buttons on LCD panels

    KEYUP：Button used to flip pages or choices up

    KEYDOWN : Button used to flip pages or choices down

    KEYENTER: Button used to enter the Menu or confirm a choice for a short press, and return

            to a previous page for a long press (More than 3 seconds)

(2) LED lights and their status

    Green light: it stands for charge status and when it flashes every 1 second, it means battery

          module is being charged.

    Yellow light: it is reserved.

    Red light: It stands for alerts or warning, when it is continuously on, there may be

          something wrong with the charging system.

(3) Screen on LCD panels

    Screen shows the detailed information and operating windows, which can be used to set
    configuration parameters and check the abnormal status.

5.2 Just press the up and down key to turn to the following 6 pages:

(1) The basic information of voltage and current output

Charge/Full/Alert/Off: there are four states for first flag. Charge means charger is charging the battery module; Full means the charger has charged SOC of battery module to an appointed value; Alert means something is wrong with this charging system. Off is the default state when charger is powered on.

ON/OFF: There is a relay inside the charger. ON means relay is closed and circuit can make a loop; OFF means relay an opposite status.

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54.9V: This value stands for charging voltage, and it varies as the real situation.

24.9A: This value stands for charging current, and it varies as the real situation.

(2) Check serial number of battery module

From this page, it is easy for you to get serial number of the battery.
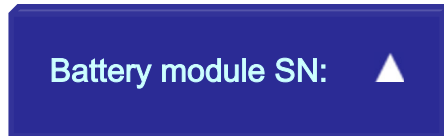
Battery module SN:　▲

(3) You can turn to this page to check:

BatCom: It shows communication status between the charger and battery module; there are two states for it, normal or NC; Normal means communication is OK and NC means it is abnormal.

Power: It means internal communication status between the charge system and AC/DC Module; NORMAL means OK, NC" means wrong.

▲
BatCom: NORMAL

(4) You can turn to this page to check:

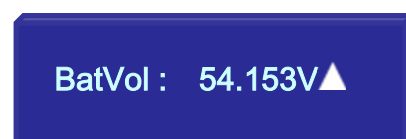Temp: If the maximum temperature of cells is over 75℃, it will display NC. Otherwise, it will display NORMAL.

Relay: If the relay is damaged it will display NC. Otherwise, it will display "NORMAL".NORMAL means OK, NC means wrong.

Temp ：　　NORMAL

(5) You can turn to this page to check:
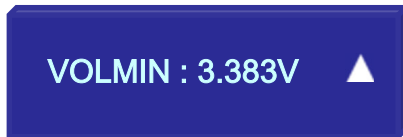
BatVol: The total voltage of battery module.

SOC: The amount of energy charged, showed by the unit of Ampere-hour.

BatVol :　54.153V▲

(6) You can turn to this page to check:
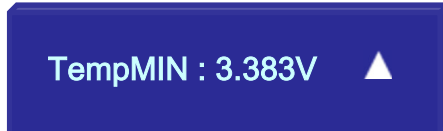
VOLMIN : The minimum voltage of cells.

VOLMAX: The maximum voltage of cells.

VOLMIN : 3.383V ▲

(7) You can turn to this page to check:

TempMIN : The minimum temperature of the cells sensed by temperature sensor.

TempMAX: The maximum temperature of the cells sensed by temperature sensor.

TempMIN : 3.383V ▲

(8) You can turn to this page to check:

If the connection between charge system and battery module is not correct or the block is not properly plugged, it will display "NC". Otherwise, it will display "NORMAL".
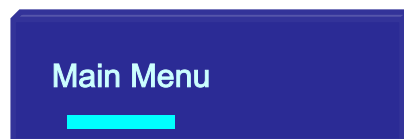
BatSta: It shows the battery state. If there is one cell that is under 1.5V, it displays NC, otherwise it will display NORMAL.

Circuit : NORMAL ▲

5.3 Menu

(1) Main Menu

Press the enter key again, then you can press the up and down key to get the voltage of every cell. You can press the enter key for more than 3 seconds back to the "Main Menu".

Main Menu

There are following submenus for the Main Menu: ChgSet, Parameters and Settings

(2) ChgSet

ChgSet

Here are CurSoc, ChgSoc and Start parameters for you to watch or set. CurSoc stands for current SOC of the battery module; Choose ChgSoc and press KEYENTER, choose the value by pressing KEYUP and KEYDOWN.

```
ChgSoc          100%
```

Choose Start and press KEYENTER you can see following interface, with KEYUP and KEYDOWN, there are two items Yes or No, which is used to start the charging process.

```
Start    Yes          ▲
```

(3) Parameters

Press the enter key again, then you can press the up and down key to get the voltage of every cell. You can press the enter key for more than 3 seconds back to the "Main Menu".

```
Parameters
```
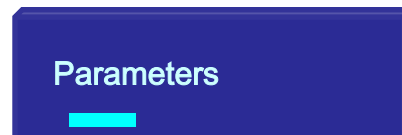
(4) Settings

Following function setting is reserved for engineers. You need a password to do the internal configurations. It is used to set charging limit for the system.

```
Settings              ▲
```

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