



上海恩阶电子科技有限公司

Shanghai energy Electronic Technology Co., Ltd.

---

---

上海恩阶电子科技有限公司

Shanghai energy Electronic Technology Co., Ltd.

# Lithium Battery BMS Display Product Specification

Product name	Lithium Battery BMS Display
Product number	
Version	V1.2
Date	



Version	Date	Draft/Modify	Version Revision Instructions
V1.1	2021/06/30	Linjialei	Create a draft
V1.2	2023/03/22	Wangtao	Hardware version Updates LCD004-PCBA-12V



## Content

1. Introduction .....	4
2. Physical Dimension .....	4
2.1. Dimensions .....	4
2.2. Reference Physical Map .....	4
2.3. Display Renderings .....	5
3. Function Description .....	6
3.1. Interface Introduction .....	6
3.2. Button Introduction .....	11
4. Install And Use .....	12

# 1. Introduction

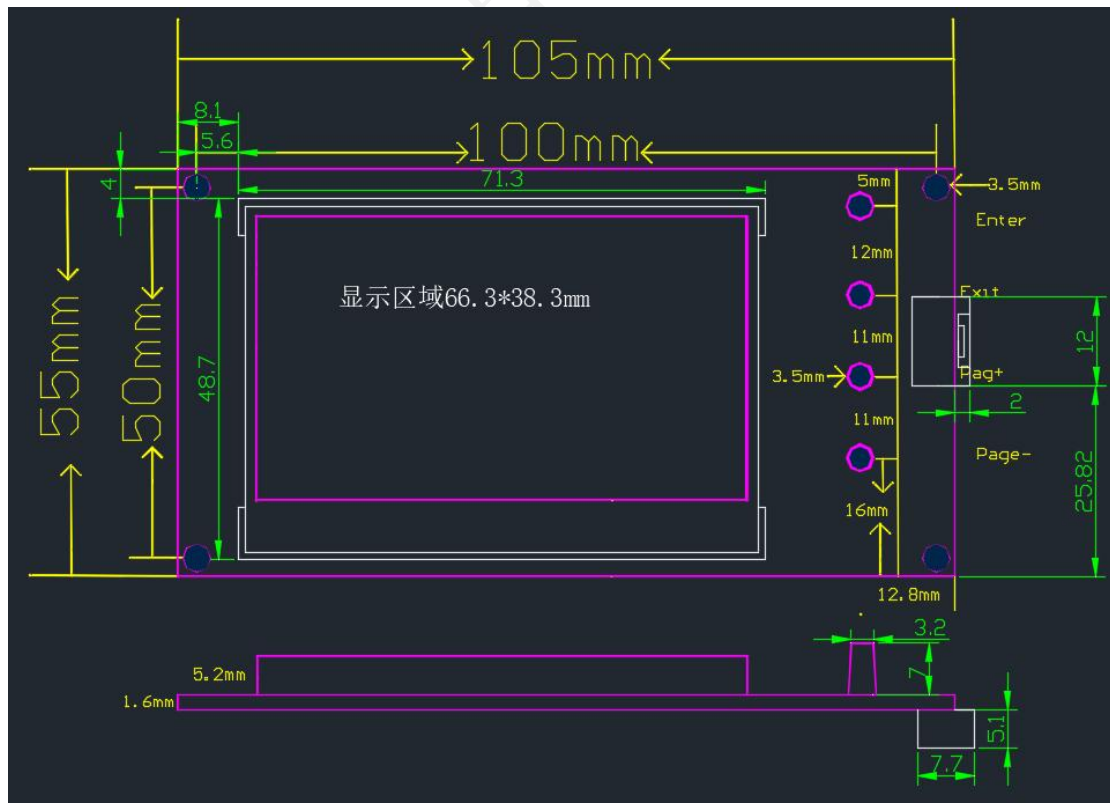
This product is the supporting equipment of the BMS series of energy storage products, which can provide intuitive battery parameter display, and has the characteristics of simple operation and friendly interface.

In order to use this product correctly, please read the user manual carefully and keep it in a safe place for future use.

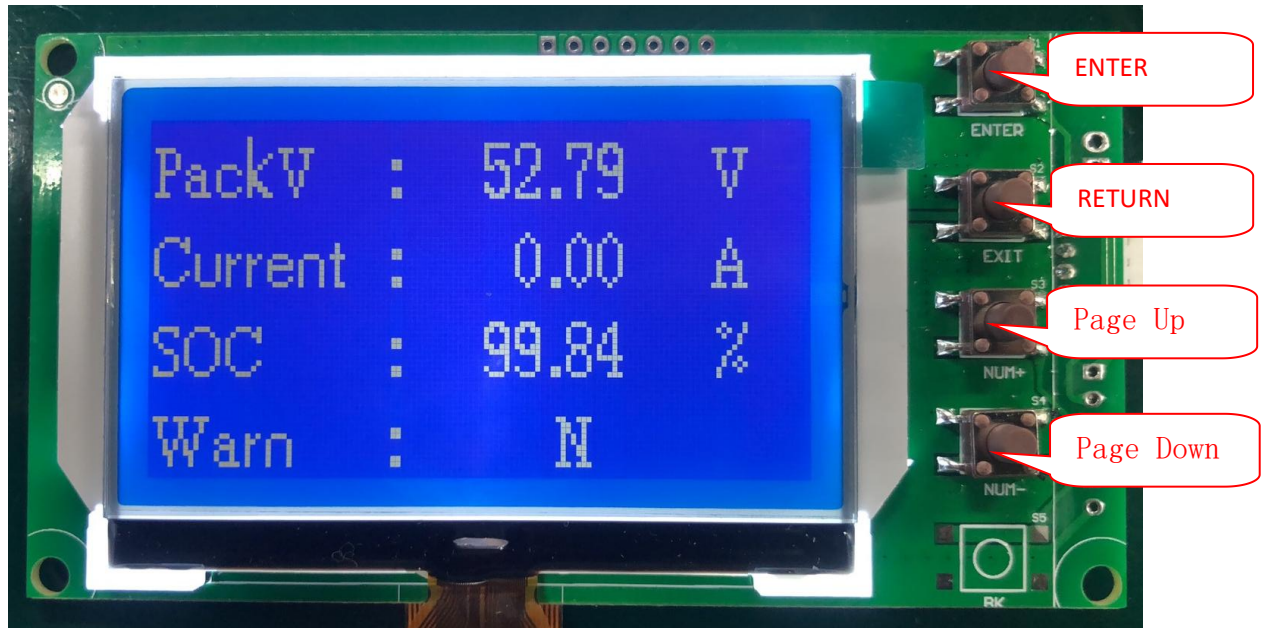
Please install, use and operate according to the requirements in the user manual.

# 2. Physical Dimension

## 2.1. Dimensions



## 2.2. Reference Physical Map



ENTER:Confirm/Enter (long press the confirm key to switch to Chinese display)

RETURN:Quit

Page Up:Superior

Page Down:Down

### 2.3. Display Renderings



Press the confirm key to enter the data interface

## 3. Function Description

### 3.1. Interface Introduction

#### 1) Main Page

After power-on activation, the battery management interface will be displayed, press the ENTER key to enter the main page. As shown below:



PackV: Total battery pressure

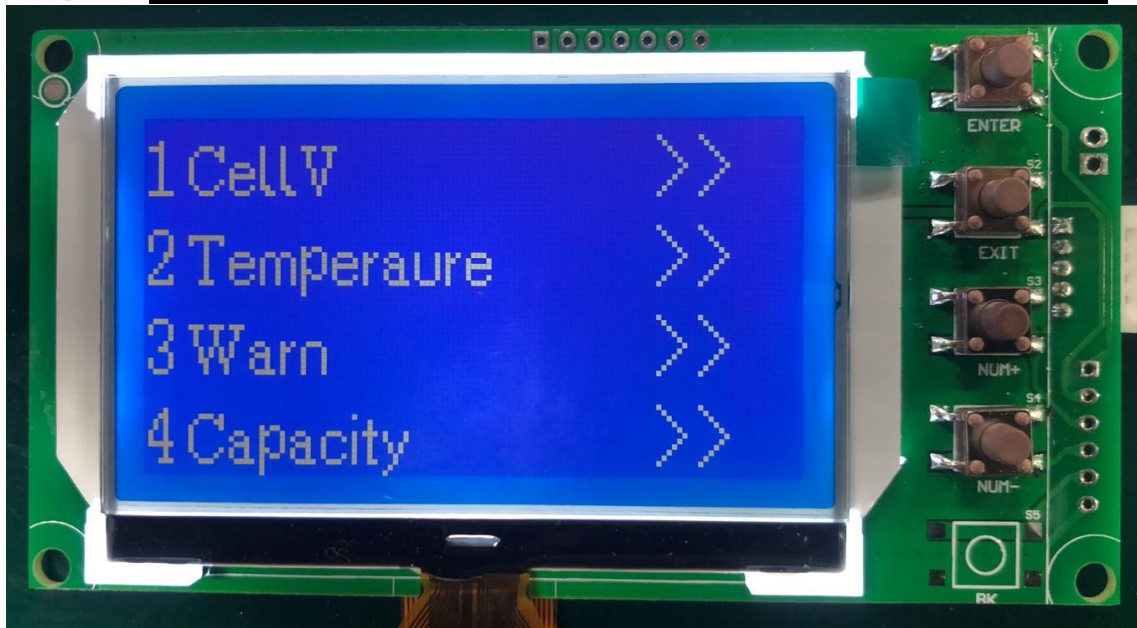
Current: Current

SOC: The remaining capacity

Warn: Alert

#### 2) Battery Parameter Interface

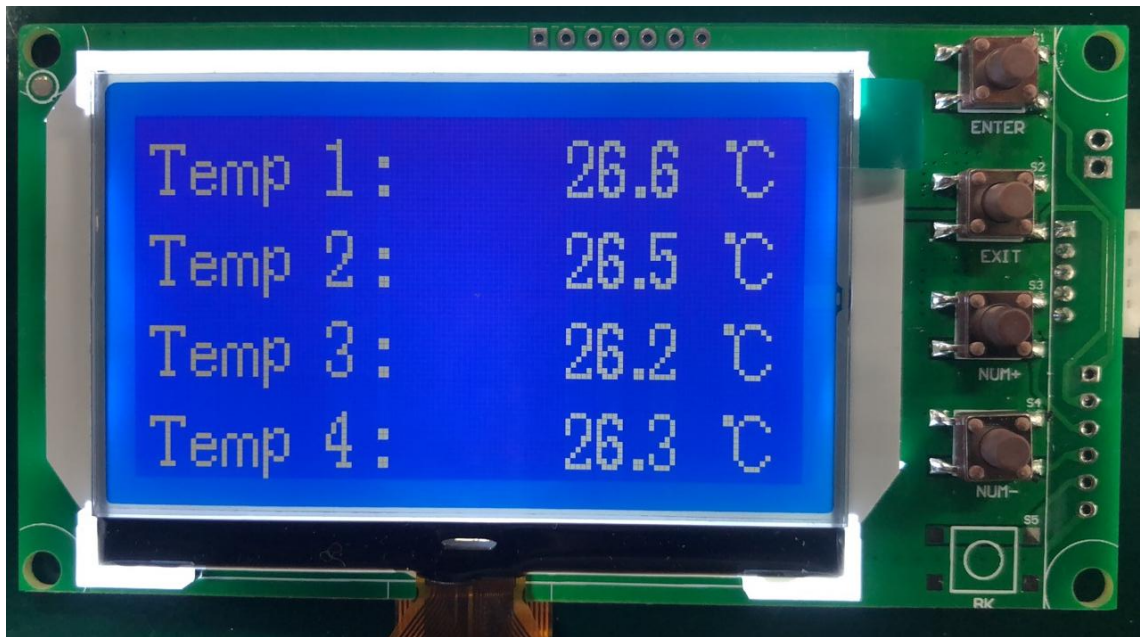
Press the GOOD or DOWN key to enter the battery parameter details



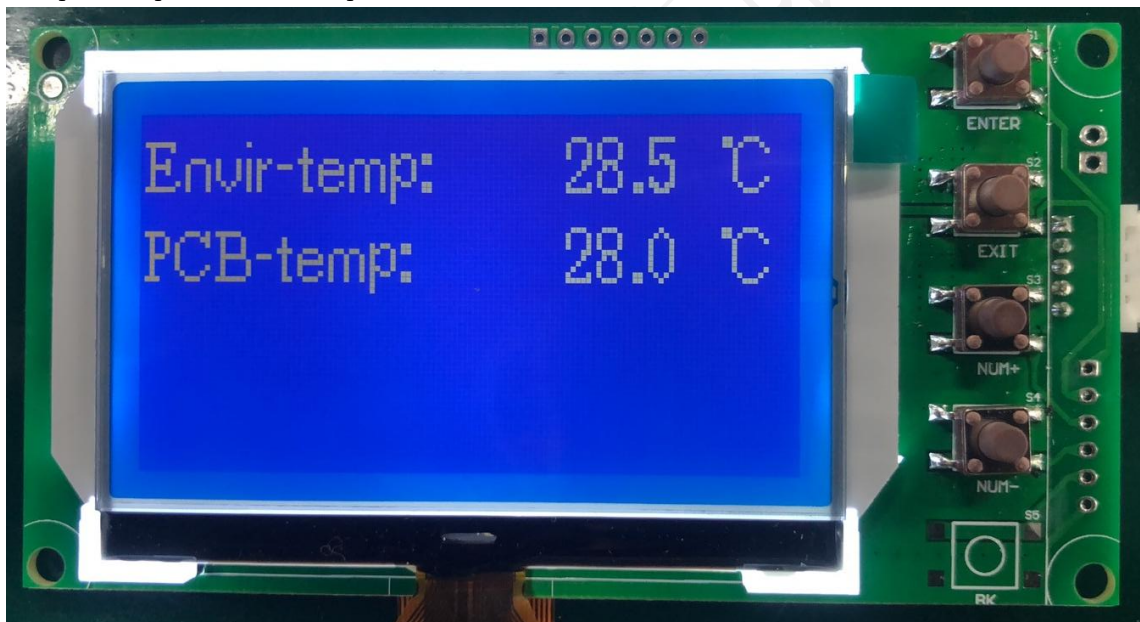
CellV: Cell voltage query  
Temoeraure: Temperature query  
Warn: Alarm query  
Capacity: Capacity query



CellV01-CellV16: Cell voltage value



Temp1-Temp4: Cell temperature value

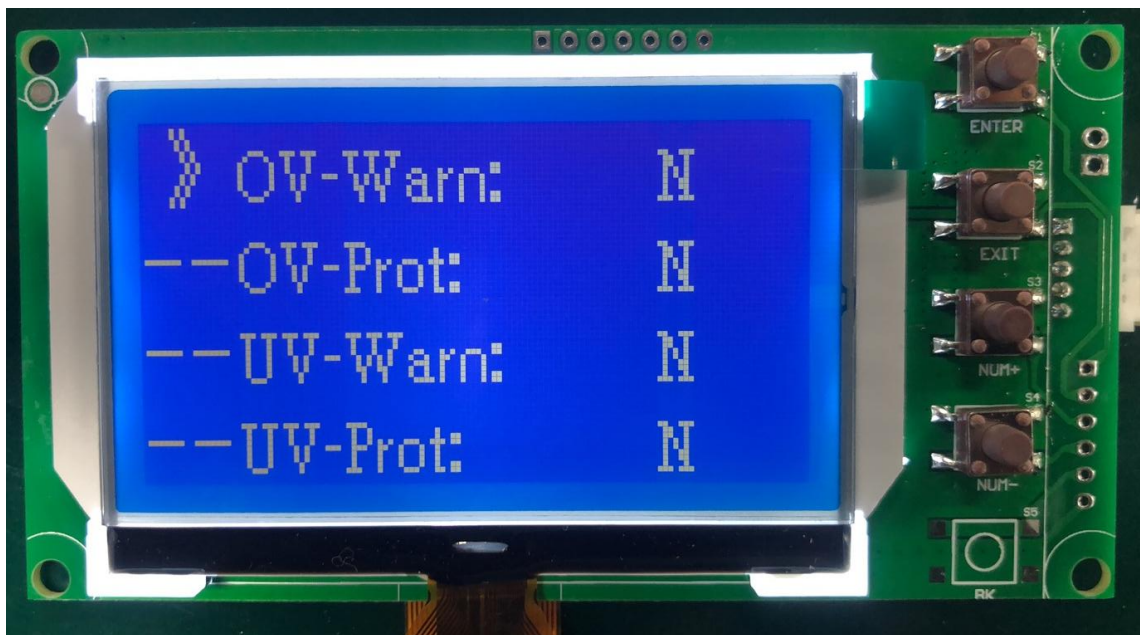


Envir-temp: Ambient temperature

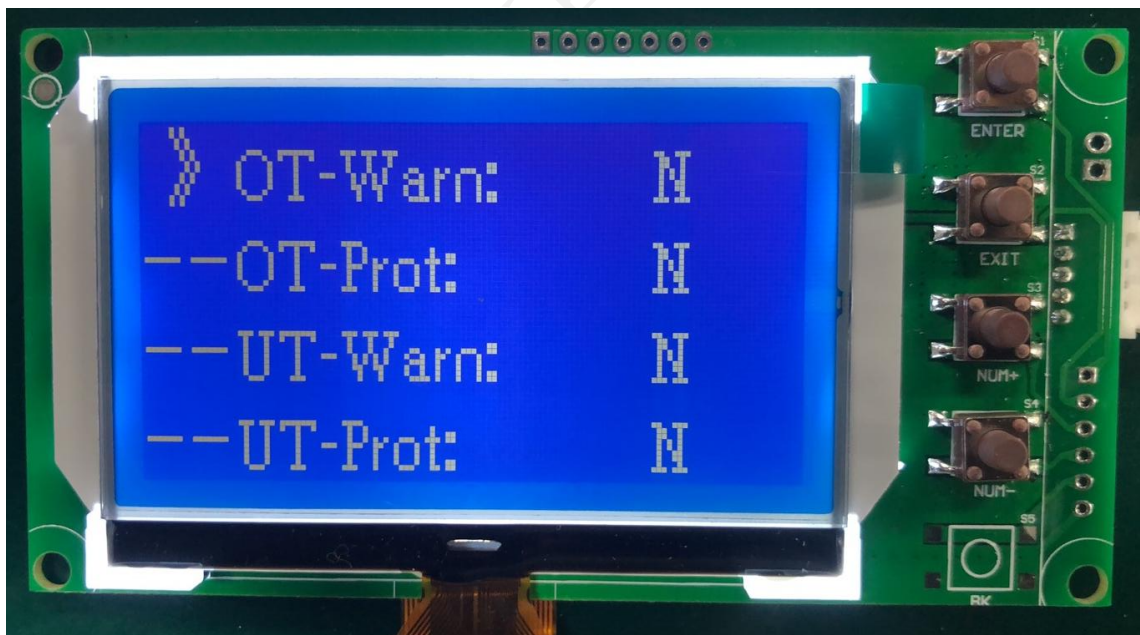
PCB-temp: Power temperature

### 3) Status Alarm

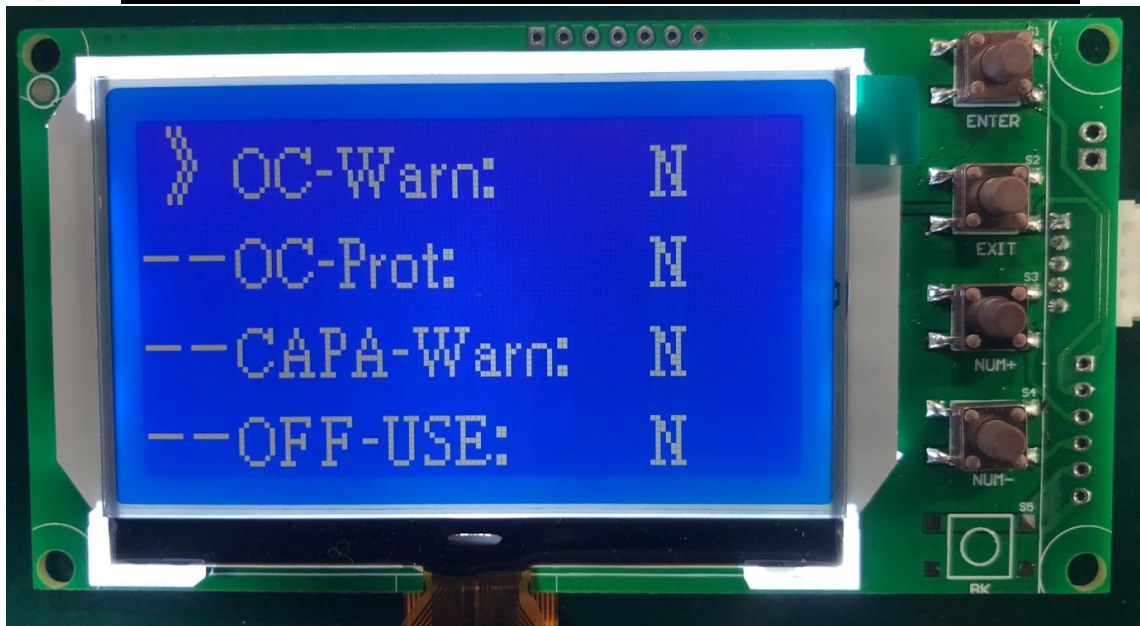




OV-Warn: High voltage warning  
OV-Prot: Overvoltage protection  
UV-Warn: Low-voltage warning  
UV-Prot: Undervoltage protection



OT-Warn: High temperature warning  
OT-Prot: Over temperature protection  
UT-Warn: Low temperature warning  
UT-Prot: Under-temperature protection



OC-Warn: Overcurrent warning

OC-Prot: Overcurrent protection

CAPA-Warn: Remaining capacity alarm

OFF-USE: Failure warning



SCP: Short circuit protection



FCC: Battery capacity

Rm: The remaining capacity

Cycle Time:Cycles

### 3.2. Button Introduction

1) ENTER——Enter\Confirm, RETURN——Quit, Page Up——Up key, Page Down——Down button.

2) Each item starts with a number, among which "number flashing" indicates the current cursor position. Press the Page Up or Page Down key to move the cursor position up and down; press the ENTER key to enter the corresponding page.

3) Press the RETURN key to return to the previous directory.

4) The backlight of the display screen is off in the sleep state, press any button to light up the backlight of the display screen.

### 3.3. Bluetooth connection

3.3.1) After entering the app, the device details will be displayed



- 1、 Mobile can search for EN BMS downloads in the App Store and Android App Store.
- 2、 The App will display all the detailed data of the device
- 3、 Details of each function switch setting are displayed in the switch settings
- 4、 The Bluetooth name is BP00, and the account number: admin password: 111111
- 5、 Note: Non-professionals should not change the configuration parameters and function switches

## 4. Install And Use

Please connect the display to the BMS through a dedicated cable!  
The 5pin socket in the display corresponds to the BMS board

