上海恩阶电子科技有限公司

Shanghai energy Electronic Technology Co., Ltd.

Specification

Product Name	LCD008 Display
Version	V1.0

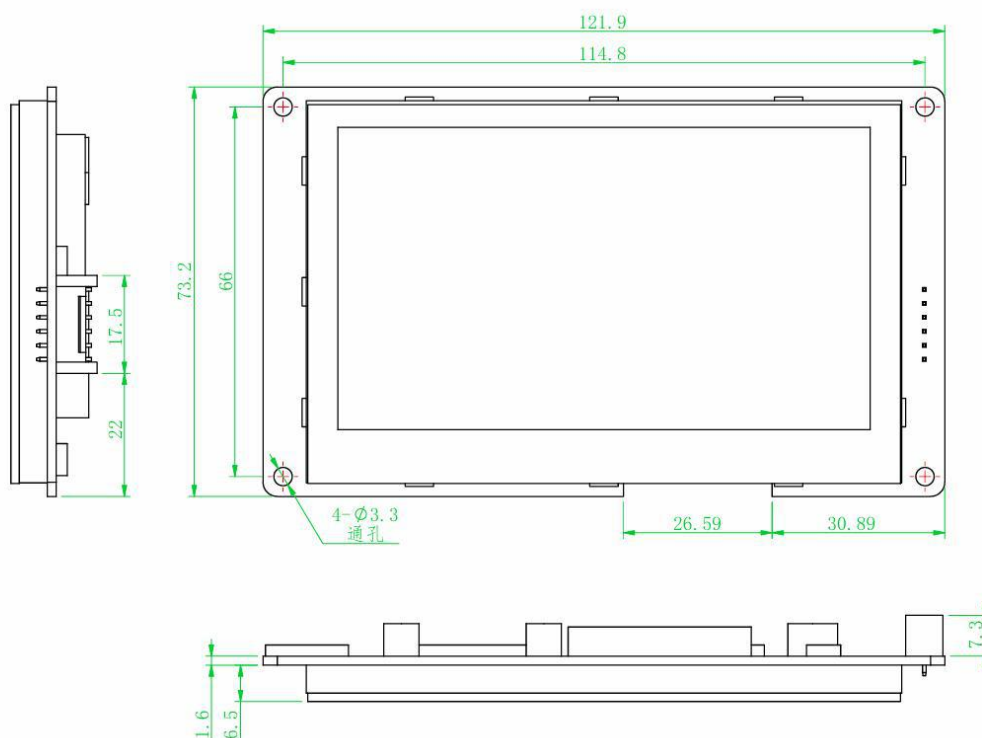| Version	Date	Draft/Modify	Version Revision Instructions
V1.0	2024/8/20	Zhouguinan	Create the draft

Content

1.Introduction

The screen display area of this product is square, which is a supporting equipment for BMS series energy storage products. It has intuitive battery parameter display function and features friendly interface, durability and stability.

To ensure proper use of this product, please read the user manual carefully and follow the requirements in the manual for installation and use.

2.Physical Dimension
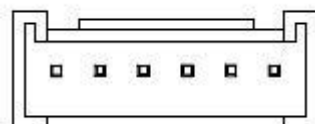
2.1. LCD008 Dimensions

2.2.LCD008 Reference Physical Map

2.3.5V-IN Interface Pin Definition

(Note: Shell pins are counted from left to right)

PIN	Definition	Description
PIN1	RX4	Data Transmission
PIN2	TX4	Data Reception

PIN3	TX2	/
PIN4	RX2	/
PIN5	GND	Negative pole of power supply
PIN6	+5V	Positive pole of power supply

3.Function Description
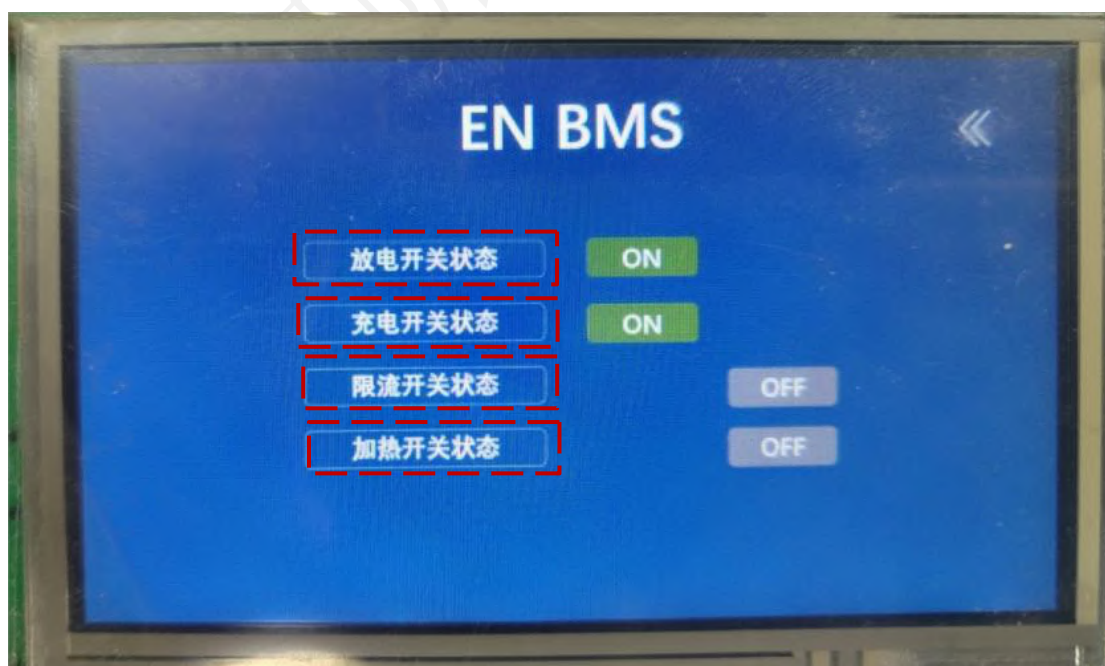
3.1.Main Interface

According to the current working status of the BMS board, as shown in the above figure, the display screen will show several modes including "charging", "discharging", and "standby", as well as various parameters of the current BMS board: remaining capacity, battery capacity, rated capacity, port voltage, total battery voltage, and number of cycles, SOH。 The blue icons ("EN", "switch status", "alarm quantity", "protection quantity", "cell quantity", "temperature quantity", "protocol switching") can all be touched to view. Details are as follows.
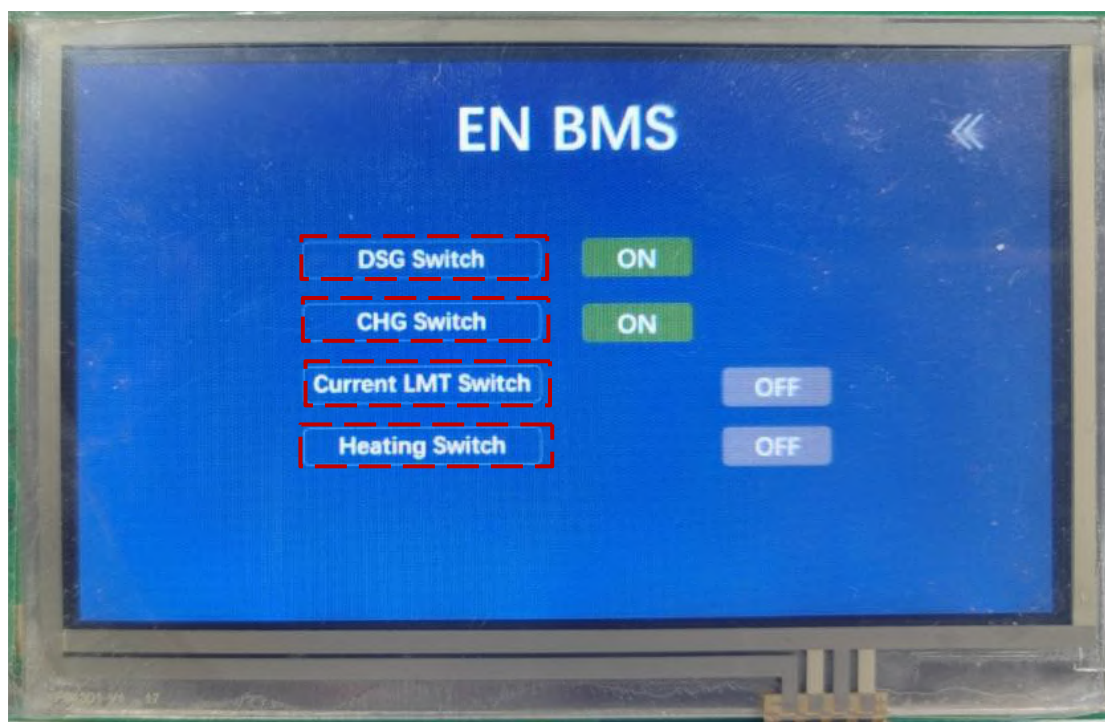
3.2.Language Switching Display

This touch screen can switch between Chinese and English. Customers should click on the blue icon "EN" or "CN" in the upper right corner according to their needs to achieve language exchange.
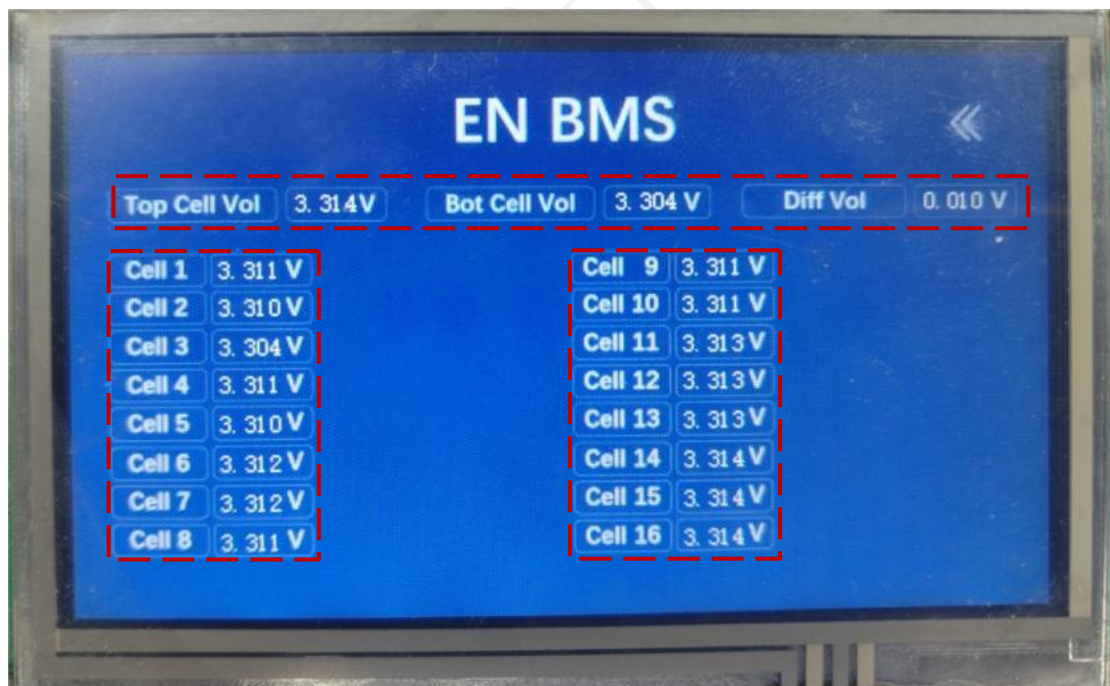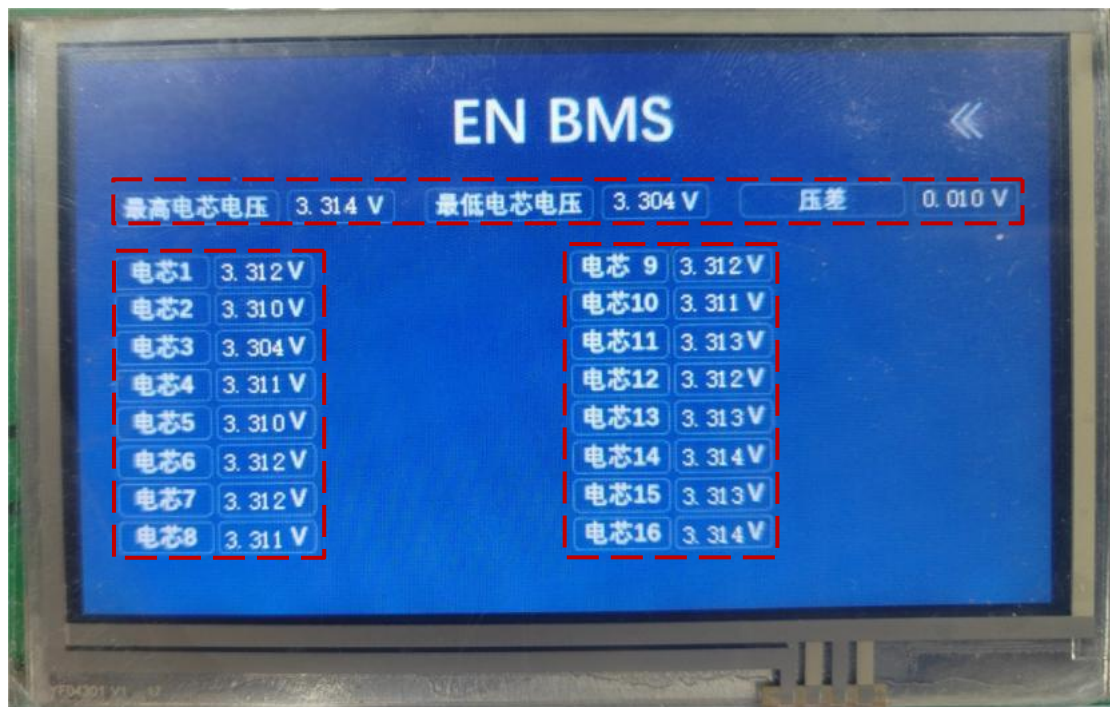
3.3.Switch Status Display

The above two pictures are in both Chinese and English states. Clicking on "Switch Status" allows you to view the current status of various switches, including discharge switch status, charging switch status, current limiting switch status, and heating switch status.

3.4.Alarm and Protection Status Display

The above two pictures are in both Chinese and English states. Clicking on "Alarm" on the left or "Protection" on the right (yellow icon for alarm, red icon for protection) will display the specific alarm and protection items currently in use.
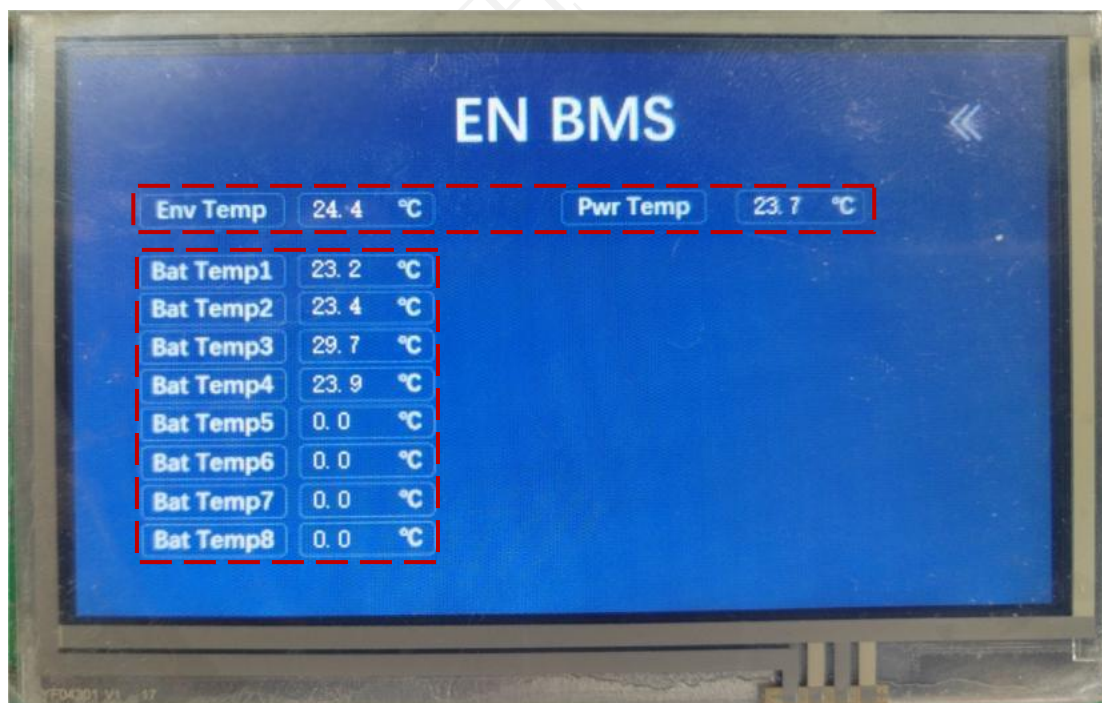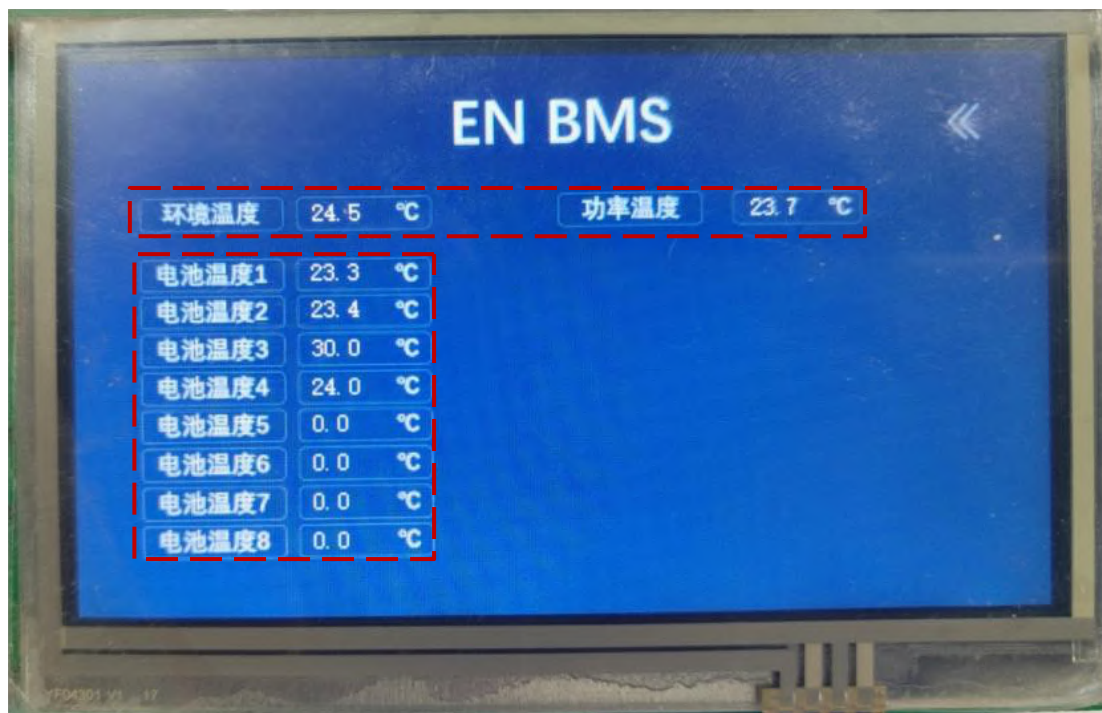
3.5.Details Of Battery Cell Quantity

The above two pictures show the voltage details of a single battery cell in both Chinese and English. In order to help customers have a more intuitive understanding of the battery cell voltage, the highest and lowest battery cell voltages, as well as the voltage difference, have also been displayed on the
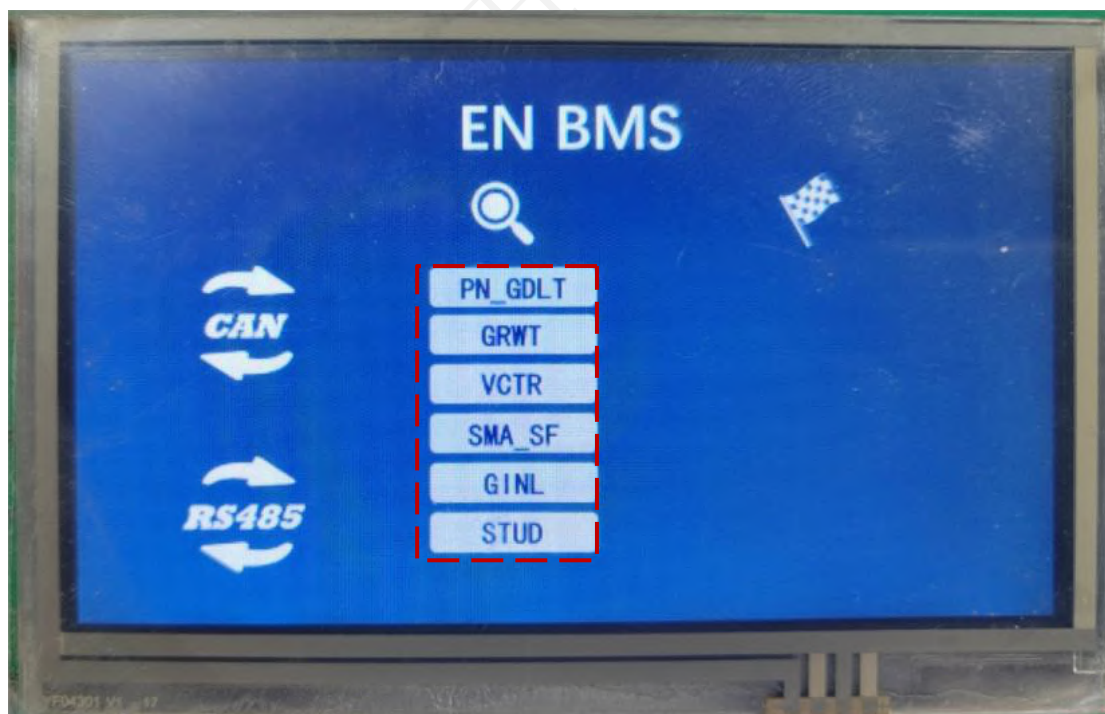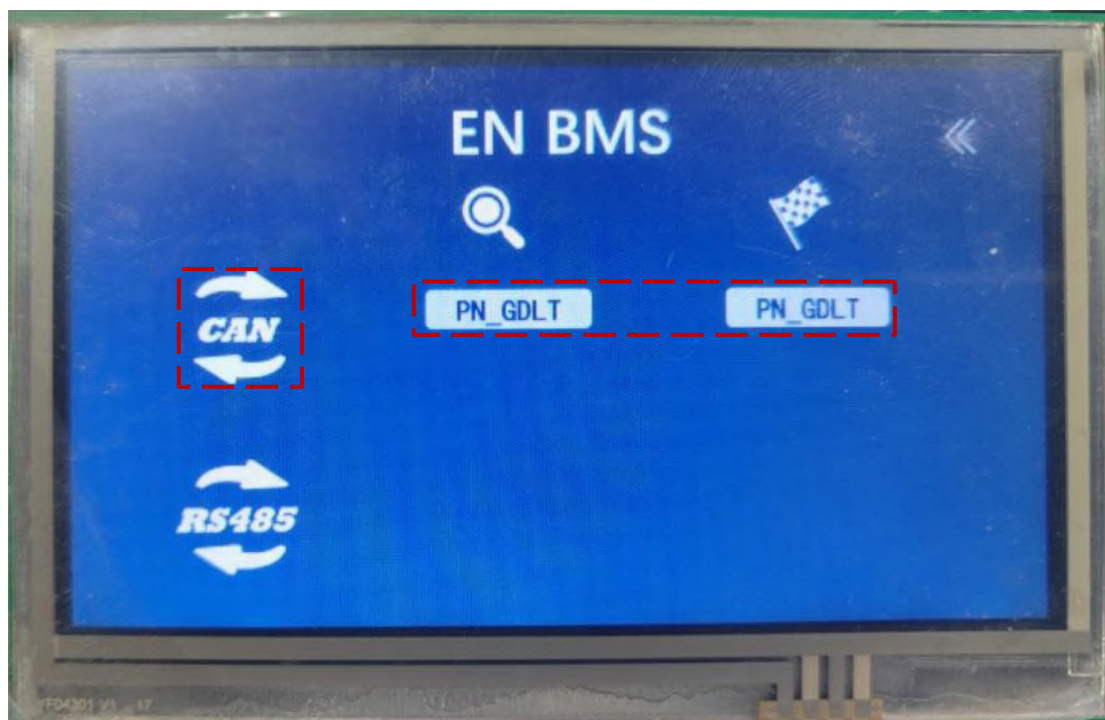
page.

## 3.6.Details Of Temperature Quantity

The above two pictures show the temperature details of each battery in both Chinese and English, including the current ambient temperature and power temperature.

3.7.Protocol Switching

The first picture is the page that pops up when clicking on the blue label "Protocol Switch", displaying the currently used protocol on the page，click

" ", The second picture will be displayed, and various protocol clients can switch according to their needs (the table below lists the currently displayed protocols from top to bottom).Note：Not currently supported。

Num	Corresponding protocol
1	PN-GDLT
2	GRWT
3	VCTR
4	SMA-SF
5	GINL
6	STUD

4. Wiring Diagram

BMS board
P+,P-Power Supply

5V Power Supply For
Display Screen

Output
Signal