



3.2 英寸点阵屏
使用维护说明书
3.2-inch Lattice Screen
Operation and maintenance manual

LCD-3.2D-STTL

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1. 产品简介（Product introduction）	1
2. 显示屏外观（Display appearance）	1
3. 接口与线缆（Interface and cables）	1
4. 接线方式(Connection diagram)	3
5. 按键操作与显示说明（Operation and display instructions）	3
6. 机械结构（Mechanical structure）	6

1. 产品简介（Product introduction）

本模块是一款专为储能电池管理系统（BMS）设计的 3.2 英寸液晶图形显示屏，采用 128×64 分辨率点阵蓝屏液晶显示器，内置 TTL 通信接口，可通过按键查看当前电池电压、电流、SOC 等核心参数，还可通过按键设置保护板的 CAN/RS485 协议。

This module is a 3.2-inch graphical LCD display specifically designed for energy storage battery management systems (BMS). It features a 128×64 resolution dot-matrix blue screen LCD and has a built-in TTL communication interface. Users can view key parameters such as current battery voltage, current, and state of charge (SOC) via buttons, and also configure the protection board's CAN/RS485 protocol settings through the buttons.

2. 显示屏外观（Display appearance）

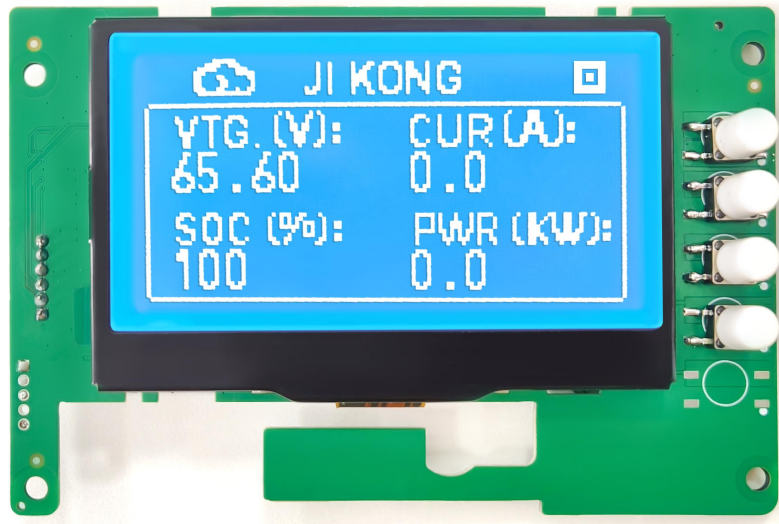


图 1/Figure1

3. 接口与线缆（Interface and cables）



图 2-1/Figure2-1



图 2-2/Figure2-2

表 1-接口定义/List1-interface definition

连接器 Connector	序号	说明
P1 激活开关接口 Activation Switch Interface GH1.25-6P	1	VIN, 接 12V 供电 Connect to 12V power supply
	2	RXD, 接保护板 TX Connect to protection board TX
	3	TXD, 接保护板 RX Connect to protection board RX
	4	GND, 接地 Ground connection
	5	K+, 接开关正端 Connect to the positive terminal of the switch
	6	K-, 接开关负端 Connect to the negative terminal of the switch
P2 用户接口 User Interface HY2.0-6P	1	K-, 接开关负端 Connect to the negative terminal of the switch
	2	K+, 接开关正端 Connect to the positive terminal of the switch
	3	GND, 接地 Ground connection
	4	TXD, 接保护板 RX Connect to protection board RX
	5	RXD, 接保护板 TX Connect to protection board TX
	6	VIN, 接 12V 供电 Connect to 12V power supply

4. 接线方式(Connection diagram)

将配线一端接显示屏的用户接口，另一端接保护板的 TTL 通讯接口即可，无需分辨方向。

Connect one end of the cable to the user interface(P2) of the display screen and the other end to the TTL communication interface of the protection board — there is no need to distinguish the direction.

5. 按键操作与显示说明 (Operation and display instructions)

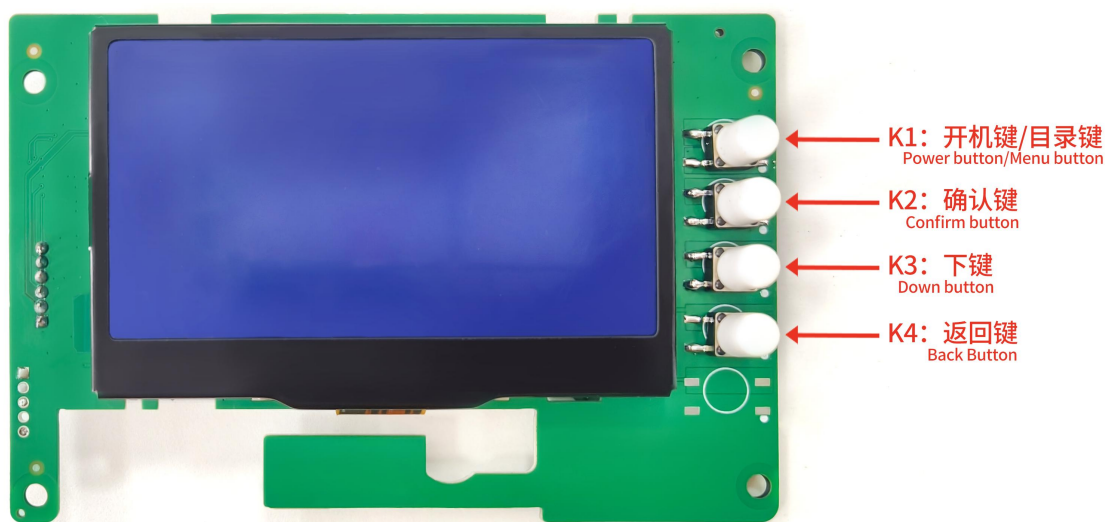


图 3/Figure3

将显示屏正确连接到保护板后，按一下 K1 开机键就可以激活保护板（开机后长按 K1 可以将保护板关机），开机后显示界面如下：

After correctly connecting the display to the protection board, press the K1 power button to activate the protection board (after powering on, long press K1 to shut down the protection board). The display interface after startup is shown below:

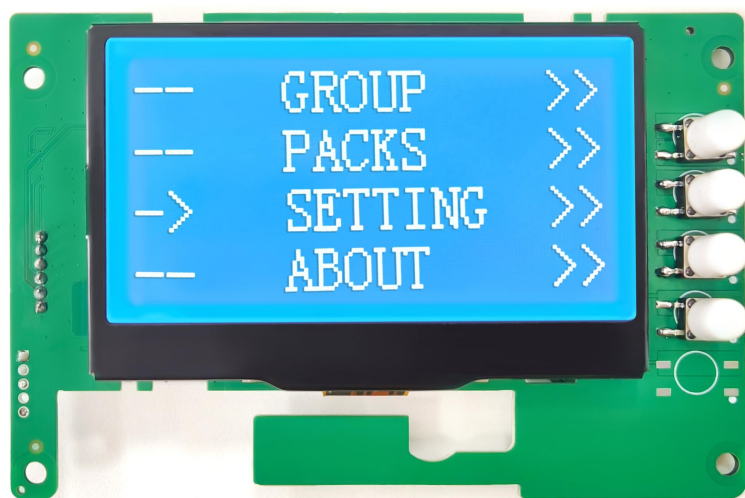


图 4/ Figure4

操作 K3 使箭头对准“GROUP”选项后按一下 K2 就会显示当前电池组的相关信息，如图 5 所示：

After using K3 to move the cursor to the “GROUP” option, press K2 to display the relevant information of the current battery group, as shown in Figure 5.



图 5/Figure5

按一下 K4 可以返回上一级菜单，在图 4 界面选中“PACKS”选项按 K2 可以显示当前每一串电芯的电压值（每一页只能显示 4 串，按 K3 切换下一页），如图 6 所示：

Press K4 to return to the previous menu. On the interface shown in Figure 4, select the “PACKS” option and press K2 to display the voltage of each cell in the current battery pack (only 4 cells are displayed per page; press K3 to switch to the next page), as shown in Figure 6.



图 6/Figure6

在图 4 界面选中“SETTING”按 K2 进入协议设置页面，在协议设置页面可以操作 K3 选择设置 CAN 或 RS485 协议，按 K2 确认，然后继续操作 K3 切换键和 K2 确认键完成协议设置，如图 7 所示：

On the interface shown in Figure 4, select “SETTING” and press K2 to enter the protocol settings page. In this page, use K3 to choose between setting the CAN or RS485 protocol, then press K2 to confirm. Continue using the K3 navigation key and K2 confirmation key to complete the protocol configuration, as shown in Figure 7.

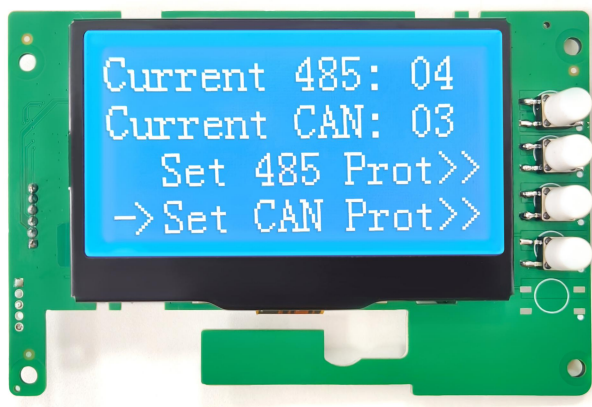


图 7-1/Figure7-1

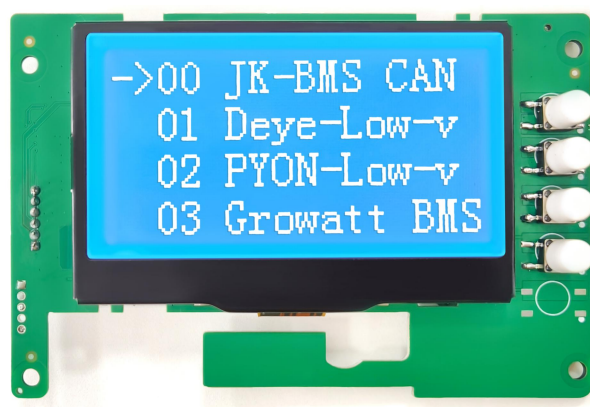


图 7-2/Figure7-2

在图 4 界面选中“ABOUT”按 K2 进入关于界面，可以显示当前软件版本信息，如图 8 所示：

On the interface shown in Figure 4, select “ABOUT” and press K2 to enter the About page, which displays the current software version information, as shown in Figure 8.



图 8/Figure8

6. 机械结构 (Mechanical structure)

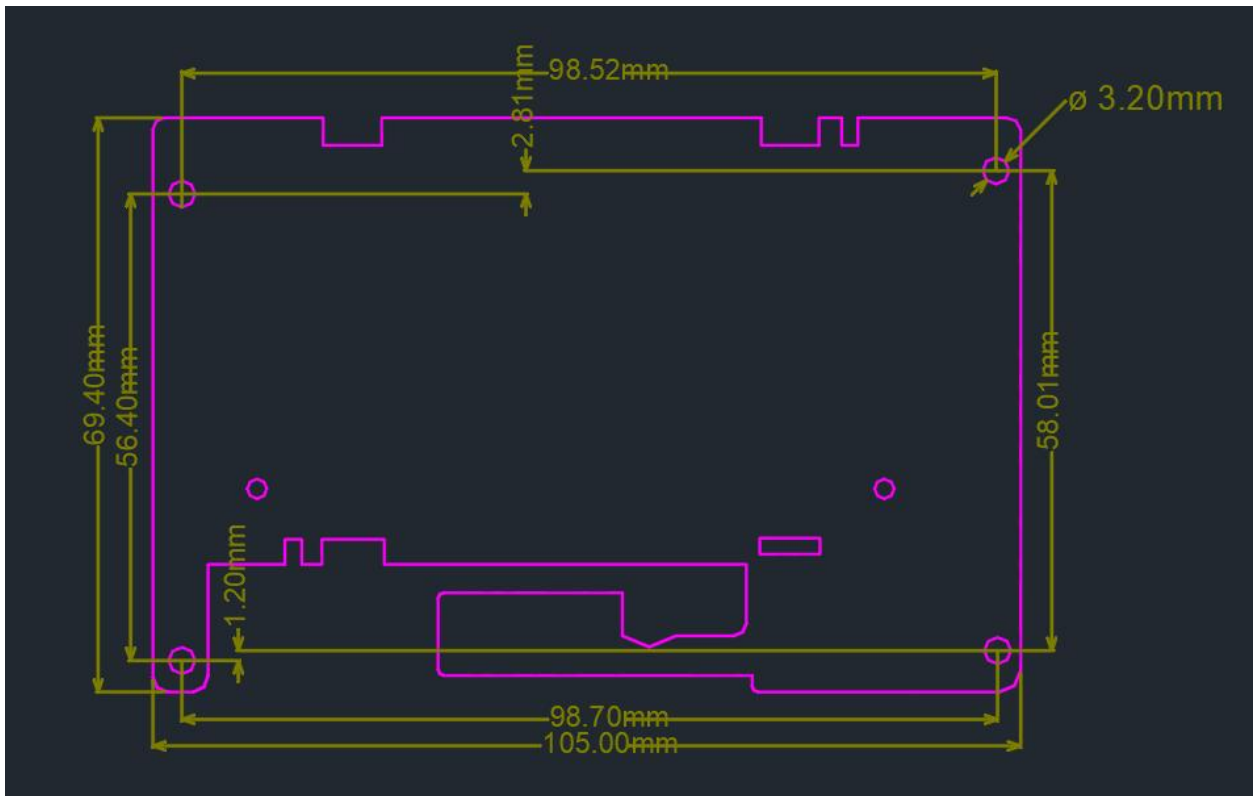


图 9/Figure9

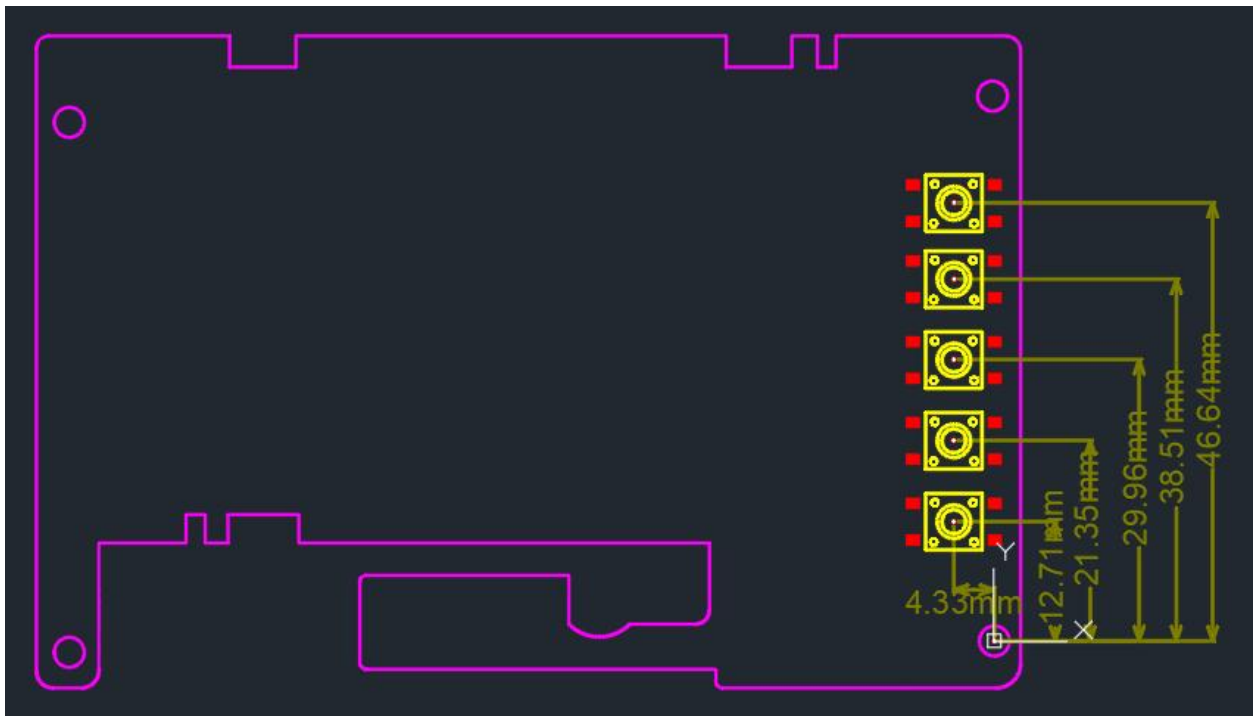


图 10/Figure10