
电池容量显示模块说明书

Battery capacity display module specification

概述 Overview

电池容量显示模块是针对我司锂电池保护板专门研发的一款产品配件，它可通过保护板随时了解电池容量剩余情况，适用于三元、磷酸铁锂、钛酸锂电池。

battery capacity display module is a product accessories specially developed for our Lithium Battery Protection Board, it can know the battery capacity surplus at any time through the protection board, suitable for Ternary, lithium iron phosphate, Li-ion、LEP、LTO batteries.

1.特点 Characteristics

- ❖ 4 段高亮度数码管显示值，电量容量一目了然
- ❖ 安装便捷，可随时监测 SOC 状态
- ❖ 具有超高可靠性测试
- ❖ 外壳精美大方，全封闭设计，可防水、防尘、防潮、防挤压等保护功能
- ❖ 4 sections of high-brightness digital display value, power capacity at a glance
- ❖ Easy installation, ready to monitor the state of the SOC
- ❖ Ultra-high reliability testing
- ❖ The shell is exquisite and generous, full-enclosed design, waterproof, dustproof, moisture-proof, extrusion-proof and other protective functions

2.主要技术指示 Main technical instructions

电源 Power supply: 12V
外型尺寸 External Dimension: 66.8*36.8*12.6
显示灯颜色 Display color: 内蓝外红 Inside blue, outside red
工作温度 Operating temperature: -20~70℃
功耗: <20mA

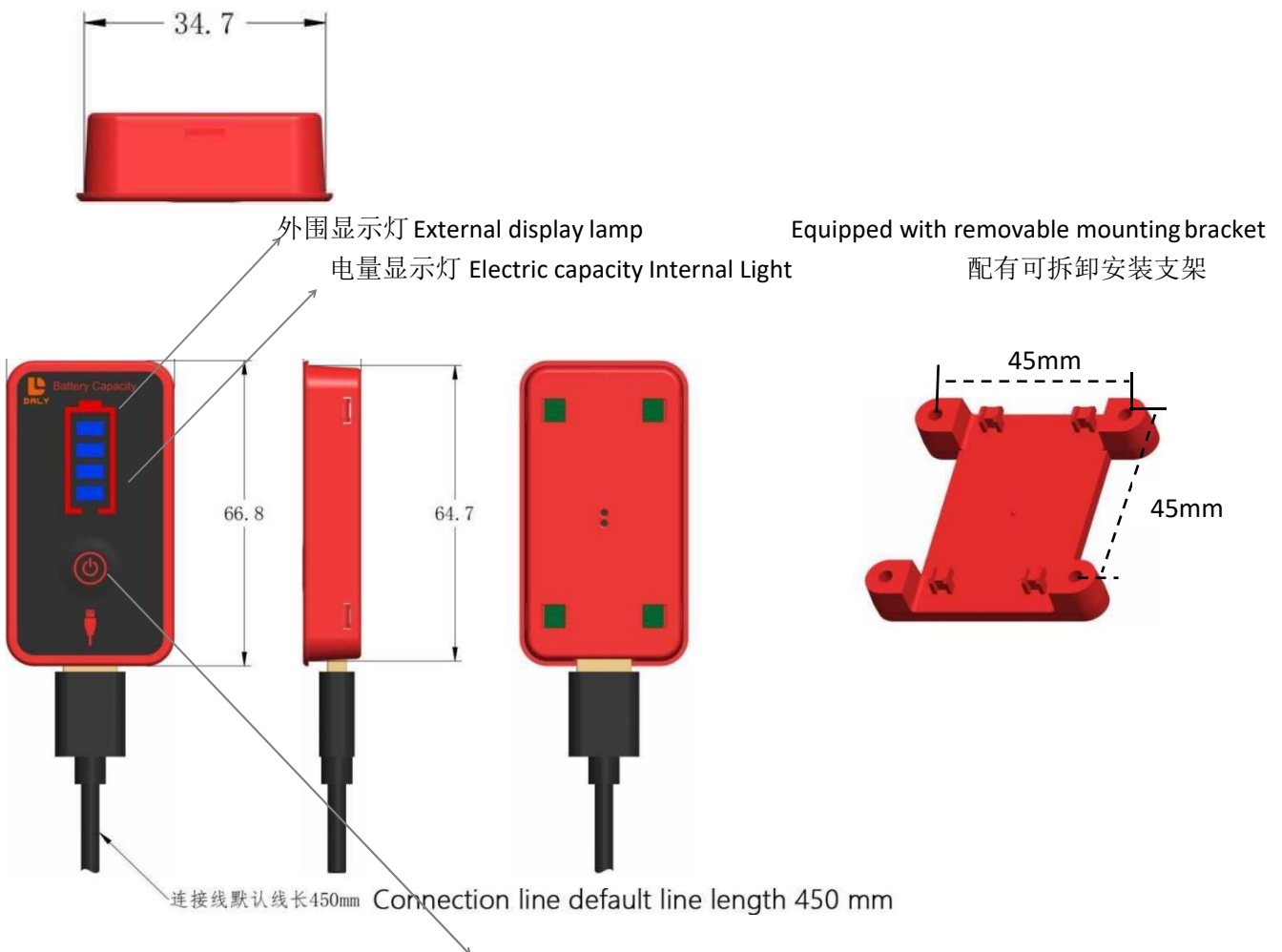
3.电量指示灯状态说明 Status Statement of power indicator lamp

指示灯 Indicator light	常亮 Constant brightness	说明 Account for
LED-1	Electric capacity 电量≤25%	SOC 采集精度在 10%左右 The acquisition accuracy of SOC is about 10%
LED-2	Electric capacity 电量≤50%	
LED-3	Electric capacity 电量≤75%	
LED-4	Electric capacity 电量≤100%	

4. 功能说明 Function description

- 供电后电池容量显示模块通过按键激活保护板，可使保护板进入正常工作状态，随即点亮数码管和外围显示灯
- 长按3秒保护板会进入休眠，休眠后电量显示模块也跟着进入休眠状态,如需调整电量显示模块亮灯时间，可通过上位机设置休眠时间
- 此模块默认只带电量显示功能，如需低电量告警可定制。
- After power supply, the battery capacity display module activates the Protection Board through the keys, which can make the protection board enter the normal working state, and then lights up the digital tube and the peripheral display lamp
- After the Protection Board Dormancy, the power display module also enters the dormancy state. If you need to adjust the power display module light time, you can set the dormancy time through the upper computer
- This module default only with power display function, such as low power alarm can be customized

5. 尺寸图 Dimensional drawing

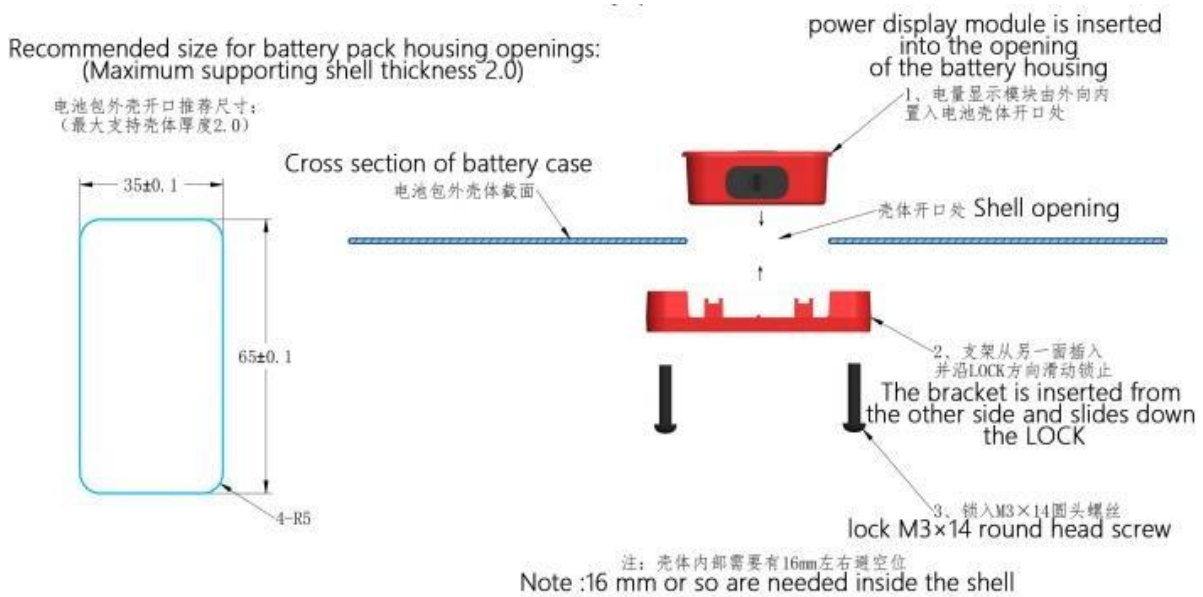


按键激活开关 Button activation Switch

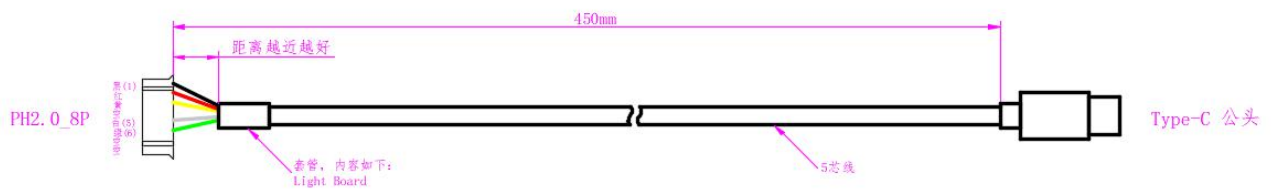
按键短按激活，长按3秒休眠

Activate by short press and hibernate by long press for 3 seconds

6. 安装到电池包壳体方法 Method of mounting to battery case



7. 线束及接口定义 Wiring Harness and interface definition



PH2.0颜色与定义	1	黑	GND
	2	红	VCC_15V
	3	黄	KEY
	4	NC	-
	5	白	TX
	6	绿	RX
	7	NC	-
	8	NC	-
Type-C线序及颜色	A12/B12	黑	GND
	A9/B9	红	VCC_15V
	A5/B5	黄	KEY
	A7/B7	白	TX
	A6/B6	绿	RX