



电池电量表 使用说明书

型号: PZEM-009

A. 产品功能

● 测量电池电压、剩余电量并通过LCD液晶屏显示

B. 产品显示

一. 显示界面 (如图1)

● 彩印液晶屏: 电压+百分比+电池符号组合显示



图1 显示示意图

注: 本产品贴膜有多种颜色, 展示图片仅供参考, 实际产品请以实物为准。

二. 显示说明

● 显示电压、百分比、电池符号

PZEM-009			
电压	测量范围:DC8-100V	百分比	范围:0%~100%
	显示格式:		显示格式:
	<10V显示如:9.99V		<10%显示如:9%
	<100V显示如:99.9V		<100%显示如:99%
	≥100V显示:OL		100%显示:100%
	精度:±1%		
电池 符号	①图形 五格电池组成, 每格代表20%		
	②显示格式		
	电量>90% 显示满格	80%<电量≤90%	第一格闪烁
	电量≤80% 显示四格	60%<电量≤70%	第二格闪烁
	以此类推……		

C. 其他功能

1. 打开/关闭显示

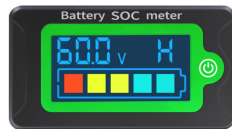
● 可通过短按按键来打开或关闭液晶显示

2. 满电/截止电压设置

● 使用前根据所测电池的规格先设置好满电、截止电压, 出厂前默认满电60V、截止47.5V。

步骤1: 长按按键进入满电/截止电压设置界面, 显示如: 60.0V H (H代表满电、L代表截止), 然后松开按键;

步骤2: 数字由高位到低位闪烁, 短按设置数值, 满电/截止电压设置界面循环切换, 设置完成后长按按键保存并退出设置状态; 注意: 满电/截止电压设置次数是有限制的, 超过50次就不能再设置了。



满电电压



截止电压

3. 电压校准

● 产品出厂前已经全部校准, 如果认为有偏差用户也可自行校准, 方法如下:

步骤1: 在断电的情况下长按按键

步骤2: 输入标准的DC20V电压

步骤3: 此时LCD显示CAL→PASS并返回到正常显示界面表示校准成功, 然后松开按键

4. 防水功能

● 本产品面板内嵌有密封圈, 安装好以后面板部分具有防生活泼溅功能 (如图2)



图2 密封圈结构示意图

D. 产品安装

● 本产品为嵌入式安装方式, 需要用户在面板上预先开孔, 开孔形状及尺寸 (如图3) 单位(mm)

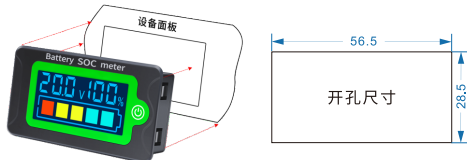


图3 装配示意图

E. 产品尺寸 (mm)



图4 产品尺寸

F. 注意事项

- 1 本产品适用于户内, 不能户外使用
- 2 本产品适用于直流, 不能测试交流
- 3 工作电压、电池不能超出标定范围
- 4 本产品防生活泼溅, 但不可浸入水中



Battery SOC meter

Operating Manual

Model: PZEM-009

A. Function

- Measure battery voltage, SOC and display with LCD

B. Display

I. Display interface

- Color LCD: Five cell battery symbol + voltage + percentage combination display



Figure 1 Display diagram

Note: The film of this product has a variety of colors. The pictures on display are for reference only. The actual product shall prevail.

II. Display description

- Display voltage, percentage, and battery symbol

PZEM-009			
Voltage	Measurement range: DC8-100V		Range: 0%~100%
	Display format		Display format
	<10V display format such as: 9.99V	Percentage	<10% display format such as: 9%
	<100V display format such as: 99.9V		<100% display format such as: 99%
	≥100V display format such as: OL		100% display format such as: 100%
	Accuracy: ±1%		
Battery symbol	① Graphical		
	Five cell symbol, each representing 20%		
	② Display format		
	SOC > 90% display full cells	80% < SOC ≤ 90% the first cell is flicker	
	SOC ≤ 80% display four cells	60% < SOC ≤ 70% the second cell is flicker	
	And so on.....		

C. Other Function

1. Turn on or turn off the display

- Short press the key to turn on or off the LCD display.

2. Set Full/Cut-off Voltage

- You should set the full and cut-off voltage according to the specifications of the tested battery before use it. The factory default value is full voltage 60V and cut-off voltage 47.5V.

Step 1: Long press the key to enter the full/cut-off voltage setting interface, which displays 60.0V H (H represents full, L represents cut-off), then release the key;

Step 2: The number flickers from high to low, short press the key to set value, and the full/cut-off voltage setting interface will cycle through. After the setting is completed, long press the key to save and exit the setting state;

Note: The times of setting the full/cut-off voltage is limited, If it exceeds 50 times, it cannot be set again.



Set Full Voltage

Cut-off Voltage

3. Calibration

- All products have been calibrated before leaving the factory. If you think there is deviation, you can calibrate by yourself. The methods

are as follows:

Step 1: Long press the key when the meter is powered off

Step 2: Input the standard DC 20V voltage

Step 3: The LCD displays CAL → PASS and returns to the normal display interface that means the calibration is successful, then release the key

4. Waterproof function

- The panel of this product is embedded with a sealing ring. After installation, the panel has the waterproof function of life splash (as shown in Figure 2)



Fig. 2 Structural Diagram of Seal Ring

D. Installation

- This product is installed in an embedded way. You need to make holes on the user panel in advance, the shape and size of the holes are shown in Figure 3:

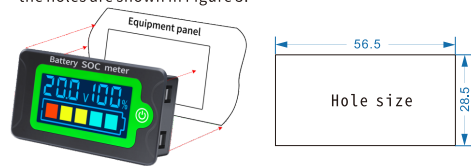


Fig. 3 Assembly Diagram

E. Dimension diagram (mm)



Figure 4 Dimension diagram

F. Attention

1. This product is suitable for indoor, not outdoor.
2. This product is suitable for DC, not AC.
3. The voltage and current can not exceed the rated range.
4. This product is splash proof for daily use, but must not be immersed in water.