

# ***Baiway* BAIWAY ELECTRONICS**

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TC30&TC35 Color Screen

Current Collection Type Battery Monitor

User Manual

May 2025

Baiway, Inc.,

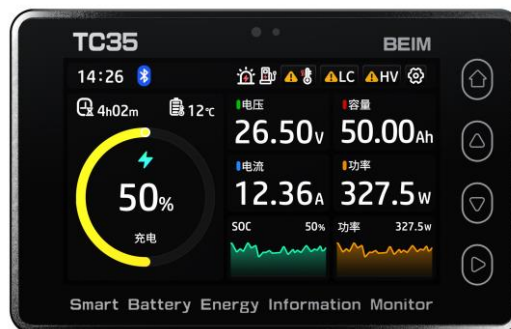
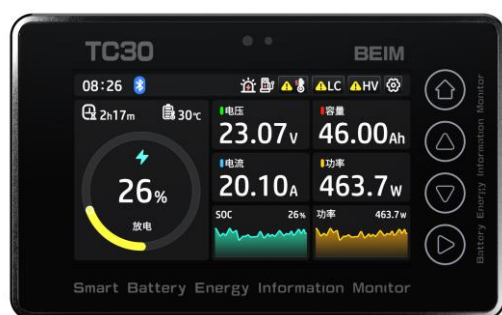
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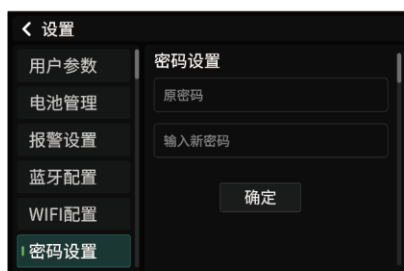
## 1. Product Introduction

- This product is a high-resolution TFT color screen, current collection type battery monitor(also called coulometer), it has automatic backlight adjustment function, can automatically adjust the backlight according to the ambient light. It can accurately detect the real-time voltage, current, power, real capacity, remaining time of the battery pack etc, so that the working status of the battery is obtained accurately at any time.
- This product can be used for RV, bed vehicle, electric vehicle, emergency power supply, energy storage power supply, measuring equipment, medical equipment, various instruments and meters using battery equipment etc.
- It is suitable for lithium batteries, lithium iron phosphate battery, lead-acid battery, NI-MH battery and other battery packs with operating voltage of 8V~80V. Please be noted that this product must be combined with sampler.
- Using the communication module based on bluetooth protocol version 5.0, you can use APP to communicate with the device, such as parameter settings or data receiving.

## 2. Product Appearance



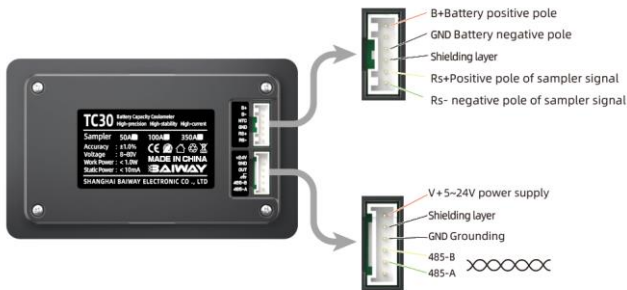
## 3. Settings Interface



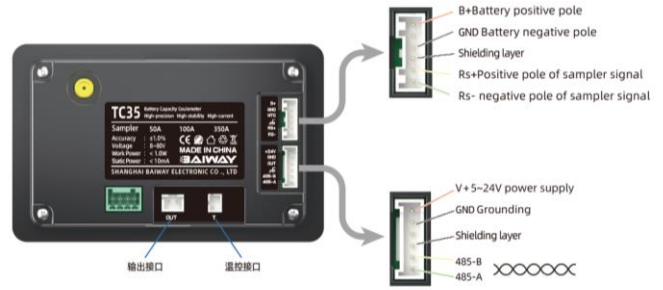
## 4. Installation and Wiring Methods

### 4.1. Interface Description

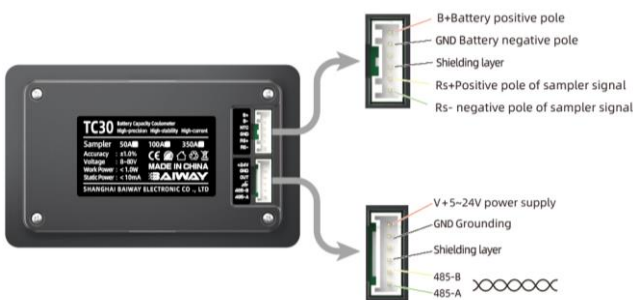
#### TC30 V0.4



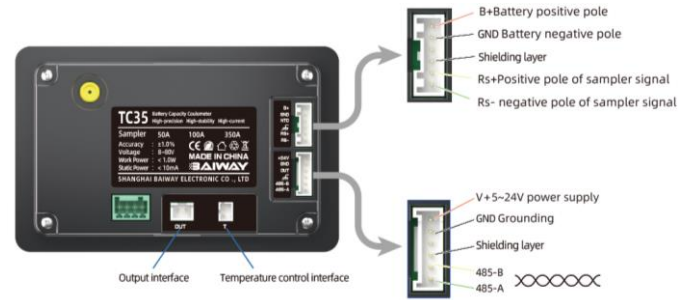
#### TC35 V0.4



#### TC30 V0.5



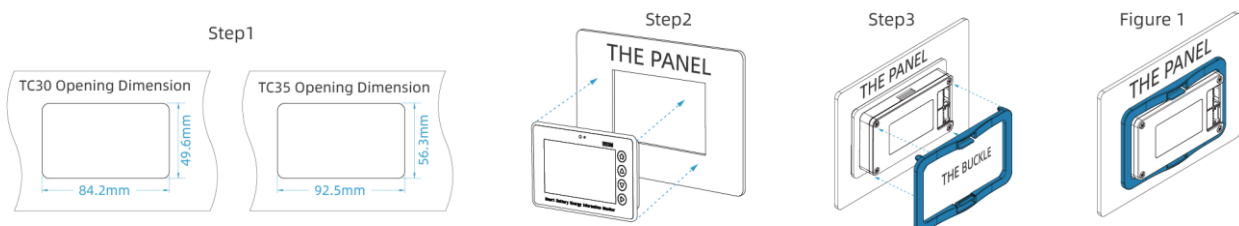
#### TC35 V0.5



**Pay attention to distinguishing the wiring of products with different version numbers!**

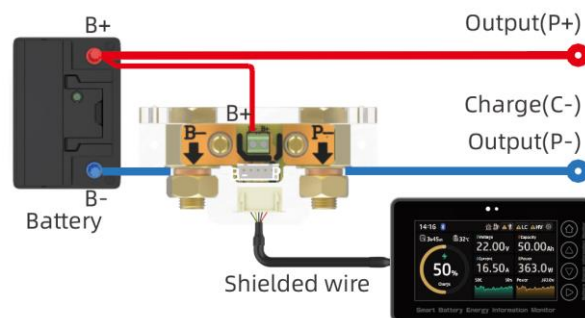
### 4.2. Installation

- Step1: Make a hole in the panel to be installed according to the hole size diagram;
- Step2: Insert the battery monitor into the panel from the front;
- Step3: Insert and fasten the buckle from the back of the product in the direction shown in the diagram, As shown in Figure 1.



### 4.3.Wiring Methods

- It is necessary to connect the matching sampler in series to the negative circuit of the battery pack when using. The B- of the sampler is connected to the negative B- of the battery pack, and the P- is connected to the negative P-/C- of the charge and discharge;
- Take a red wire(20~22AWG) to connect the positive electrode of the battery to the sampler B+ for power supply of the battery monitor;
- Connect the sampler to the battery monitor with a shielded wire. Power on after confirmation;
- Wiring principle: Ensure that all current flowing through the battery goes through the sampler!
- Attention:Please wire strictly as shown. The sampler must be connected in series with the negative circuit of the battery. It is strictly forbidden to connect the positive circuit. Shielded wires cannot be extended by yourselves.



## 5. Product Size

### 5.1.TC30 Dimension



### 5.2.TC35 Dimension



## 6. Technical Parameters

Parameter		Min.	Regular	Max.	Unit
Operating voltage		8.0	24	40	V
Operating consumption	Backlight 0%			<1.3	W
	Backlight 50%			<1.5	W
	Backlight 100%			<2.0	W
Accuracy of voltage collecting			±1.0		%
Accuracy of current collecting			±1.0		%
Accuracy of capacity collecting			±1.0		%
Backlight on current (50A specifications)			50		mA
Backlight on current (>50A specifications)			100		mA
Capacity detection range		0.1	100	9999	Ah
Matched sampler Current detection range	50A Specification	0.0	50.0	75.0	A
	100A Specification	0.0	100.0	150.0	A
	350A Specification	0.0	350.0	500.0	A
	500A Specification	0.0	500.0	750.0	A
The ambient temperature range of using		-10.0	20.0	60	°C
TC30/TC35 Weight of battery monitor		70/112			g
TC30/TC35 Size of battery monitor		95.4×59×16/104×66×22.2			mm