

HD color screen battery/power supply 2-in-1 tester

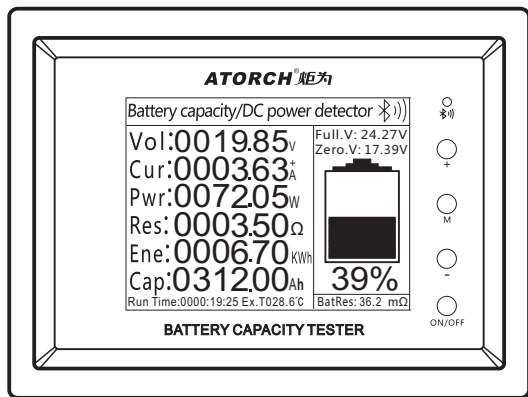
--User manual--

Important statement: This meter is not immediately displayed by the battery to power the battery capacity. Instead after receiving the goods, the battery must be fully charged in strict accord. After connecting this meter and long press the addition and minus buttons at the same time, the capacity of this meter is cleared zero.

The cumulative measurement of the cumulative measurement when the battery is out of power through this meter is the storage capacity of the battery.

Users should first look at the instructions to use or call the manufacturer's technicians to seek help and explanation !!!

DT24PW



This user manual is applicable to 100A/200A/300A/400/500A/600A/1000A

This equipment is used to measure and display the voltage, current, power, analog load resistance value, discharge capacity, electricity quantity, battery temperature, over-voltage prompt, low-voltage prompt, over-power prompt of the battery pack/power supply, as well as the percentage value of electricity quantity corresponding to the battery voltage ratio

For more details, please visit the website: <http://en.atorch.cn>

Use steps for discharge mode to detect battery capacity

- 1) Fully charge the tested battery and change the wiring of this meter: First, fully charge the tested battery, then connect it according to the wiring instructions and turn it on. At this time, the screen should display the voltage of the connected battery
- 2) Host capacity reset and zero capacity voltage setting: Simultaneously press and hold the "+" and "-" buttons on this meter to reset the battery and capacity values, and then set the zero capacity voltage of the tested battery to this meter
- 3) After completing the discharge of the load, check the capacity result: output and start discharging when the load is connected. When the battery is discharged and the zero capacity voltage alarm interface is displayed, it indicates that the discharge is complete. At this time, the capacity value and power value displayed on this meter are the effective capacity value and power value of the tested battery;

Reminder: It is necessary to fully discharge the tested battery and accumulate its capacity and power value in order to achieve complete accuracy

Use steps for charging mode to detect battery capacity

- 1) After discharging the tested battery and replacing the wiring of this meter: Firstly, discharge the tested battery, then connect it according to the wiring instructions and turn it on. At this time, the screen should display the voltage of the connected battery
- 2) Host capacity reset and zero capacity voltage setting: Simultaneously press and hold the "+" and "-" buttons on this meter to reset the battery level and capacity values, and then set the full capacity voltage of the tested battery to this meter
- 3) Connect the charger and fully charge it to check the capacity: Input input Start charging with the charger until the battery is fully charged and the full capacity voltage alarm interface is displayed, indicating that charging is complete. At this time, the capacity value and power value displayed on this meter are the effective capacity value and power value of the tested battery;

Reminder: It is necessary to fully charge the tested battery and accumulate the capacity and power value for complete accuracy

Background Settings

Press the "M" key for a long time to enter the background setting interface, and then press the M key for a short time to switch the setting column. If a number flashes, press the +/- key for a short time to adjust the number. If so, press the +/- key for a long time to adjust the flashing number:

ATORCH DT24PW Menu (100 A)	
01.中文	English
02. Clear Cumulative data	
03. Full capacity voltage	:0240.00V
04. Zero capacity voltage	:0003.00V
05. Over-Power	:01000W
06. Display Brightness	:9
07. Standby Brightness	:3
08. Enter Standby Time	:60S
09. TempCorrection In. Temp	:024.7 C
10. TempCorrection Ex. Temp	:---. - C
11. Default Settings	
12. Exit	

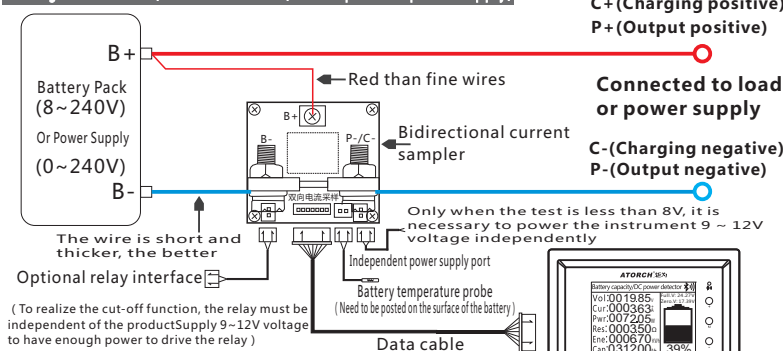
- Short press to switch back the interface, long press the capacity At the same time, press and hold the add/subtract button to reset the capacity One reset
- Long press to enter the background, short press in the background change Menu
- Short press to switch the interface forward; long press the power At the same time, press and hold the add/subtract button to reset the capacity One reset
- Press and hold to pop up the shutdown and reset interface, and then repeat
- Short press to switch the menu column and turn purple in a menu Press and hold again to execute the menu

- 1) Clear accumulated data: press the Add/Subtract key to display OK!
- 2) Full capacity voltage: > voltage set value, system alarm sends out a power off signal, red light off;
- 3) Zero capacity voltage: < voltage set value, system alarm sends power off signal, red light off
- 4) Over-power: > power set value, system alarm sends power off signal, red light off;
- 5) Restore factory settings: restore all data to factory values (press the M key briefly to this column and then press the "+" key for 3 seconds to reset the system)

Application and electrical test specifications

- * This Meter is used to measure and display the voltage, current and power of battery or power supply, as well as the power consumption capacity and other parameters.
- * It is suitable for all kinds of battery packs such as lithium battery, lithium iron phosphate, lead acid and nickel metal hydride with operating voltage of 0~240V.

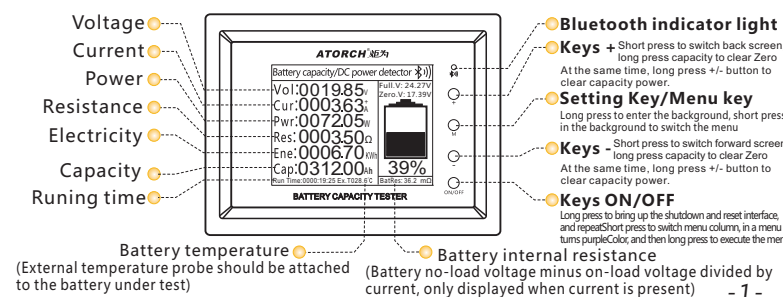
Wiring instructions (8~240V/0~240V (9V independent power supply))



Note: Please strictly follow the icon. The sampler must be connected in the negative circuit of the battery. The connection is strictly prohibited! The data cable on the panel can be extended by itself as needed, which does not affect the data transmission and measurement accuracy.

- 1) The sampler of this Meter must be connected to the negative electrode circuit of the battery pack. The B- connecting the negative electrode B- connecting the battery pack on the sampler B and the P-terminal connected to the negative pole P-/C-.
- 2) The red wire connects the battery positive electrode to the sampler B+ to display the power supply and voltage sampling of this meter.
- 4) Wiring principle: Be sure to ensure that all current flowing through the battery pass through the sampler! Reminder: The battery pack B- to the sampler B- this wire is as short as possible as much as possible to ensure that the measurement is more accurate!

Main interface introduction and button operation method



Test method for output voltage, maximum current and maximum power of DC power supply

First connect the input of this meter to the output terminal of the DC power supply. At this time, the screen should display the voltage value of the connected power supply, and then connect the output terminal of this meter to the user's power consumption load device, which starts to display the current and power values. If you want to know the maximum current value and power value of the DC power supply output, please adjust the power consumption load to make the DC power supply voltage drop sharply, which is the maximum load pole of the power supply. At this time, the current and power values shown in this table are the maximum output values of the DC power supply. If you want to test the rated nominal current and power values and the quality of the DC power supply, please adjust the load to the nominal rated current and power value of the DC power supply and power on for aging for 4-8 hours. If the DC power supply can output stable voltage and the power module temperature is normal, then the DC power supply is judged as qualified

Use of system shutdown and current reset interface

Long press the "ON/OFF" key to enter the background, then short press the M key, and then long press the operation:

- 01 No load current clearing (Do not operate When there is load)
- 02 System shutdown (shutdown only when the battery has not been used for a long time)
- 03 System reset
- 04 Exit

Press and hold to enter the interface of no-load current reset, system shutdown and reset

- 1) Zero clearing of no-load current: when it is found that the product still displays the current value when it is no-load, press and hold the key to make the current zero clearing display "0A"
- 2) System shutdown: to avoid power loss when the battery is not used for a long time, the system can be shut down to enter zero power consumption mode
- 3) System reset: In case of system instability or data disorder, execute this operating system to restore to the factory default value (the accumulated capacity value and power value will be cleared after system reset, please operate cautiously);
- 4) Exit: exit and return to the main measurement interface

Steps for connecting mobile APP via Bluetooth:

(Be sure to turn on your mobile Bluetooth, location information and storage permissions) Search for E in Apple Apps Test or Android scanning code to download and install, click the icon to open the APP, and then click the Bluetooth map in the upper left corner of the interface The icon enters the list and displays the DT24PW-BLE model. After clicking the model again, it will automatically return to the APP main interface. At this time, the host Bluetooth icon is displayed by The original gray turns blue and the horn drips, which means that the connection communication is successful and the data starts to be transmitted synchronously and displayed

Warning: If the DL24PW-BLE model cannot be displayed after clicking the Bluetooth icon in the upper left corner of the APP interface, please go to your phone settings Open the storage permission and location information options of this APP! The model can be displayed correctly by returning to the APP interface after the two items are all turned on

User self calibration In the background setting interface, long press +/- key at the same time to enter the user calibration mode, short press M key no-load current reset column, short press +/- key to execute current reset, short press +/- key again to adjust the calibration coefficient so that the calibrated voltage and current are the same as the displayed value of the user's standard instrument:

在空载时电流清零		
项目	校准前	校准后
电压校准:	12.1444V X	01.0100 = 12.1444 V
电流校准:	00.1076A X	00.9565 = 00.1076 A

Panel installation and fixing instructions

Dig a rectangular hole for installation according to the installation size, then tear off the white paper strip on the double-sided adhesive tape around the back of the meter and directly put it into the rectangular hole, and then press hard around to make the adhesive tape stick firmly to the panel, and the installation is completed.