

U65 Color screen voltage and current tester

User Manual

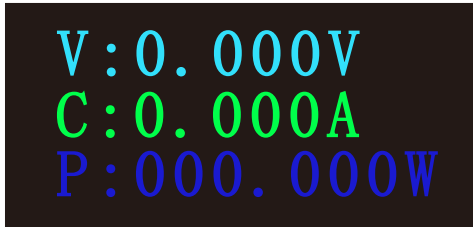


Technical parameter

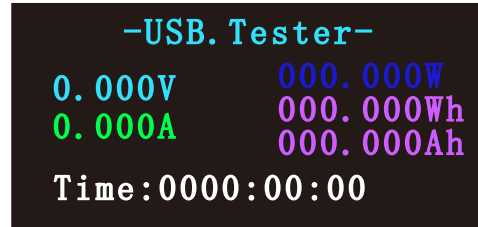
Model	U 65 - B	U 65 - T
Display screen	0.96 inch IPS color LCD screen	
Color	Blue shell	Transparent shell
Voltage measurement range	3.60 ~ 30.0V	
Voltage measurement resolution	0.01 V/ 0.001 V	
Voltage measurement accuracy	$\pm(0.1\% + 2 \text{ digits})$	
D+/ D-voltage measurement range	0 ~ 2.99V	
D+/ D-voltage measurement accuracy	$\pm(10\% + 10 \text{ digits})$	
Current measurement range	0 ~ 6.500 A	
Current measurement resolution	0.001A	
Capacity measurement range	0 ~ 99999 m Ah	
Energy measurement range	0 ~ 99999 m Wh ~ 999.99 Wh	
Current measurement accuracy	$\pm 0.25\% \leq 4.8 \text{ A} > \pm 2.5\%$	
Load impedance measurement range	1 Ω ~ 999.9 Ω	
Power measurement range	0 ~ 150.00 W	
Cumulative time	0 ~ 999.9 hours, 59 minutes	
	and 59 seconds	
CPU temperature measurement range	0°C ~ 65 °C	
Temperature measurement error	$\pm 3^\circ\text{C}$	
Working temperature range	0 ~ 45°C/ 32°F ~ 113°F	
Refresh time	> 200mS/times	
Measurement rate	$\approx 0.5 \text{ times/S}$	
Self-consumption current	< 0.03 A	
Product size	69.6 mm×23 mm×12 mm	
Weight(including package)	$\approx 27 \text{ g}$	

Function interface

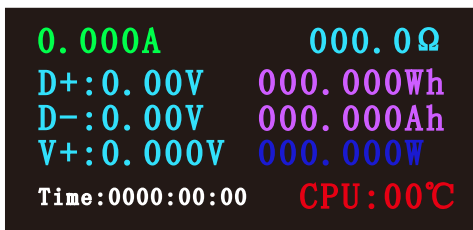
U65 voltage and current tester has three interfaces, which can be switched by pressing the function key briefly.



Interface 1

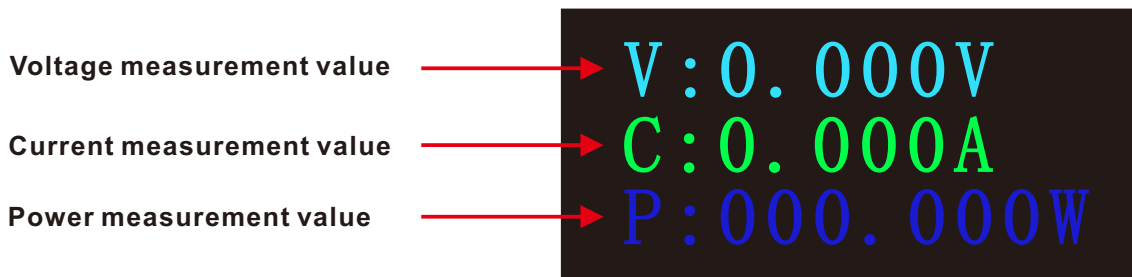


Interface 2

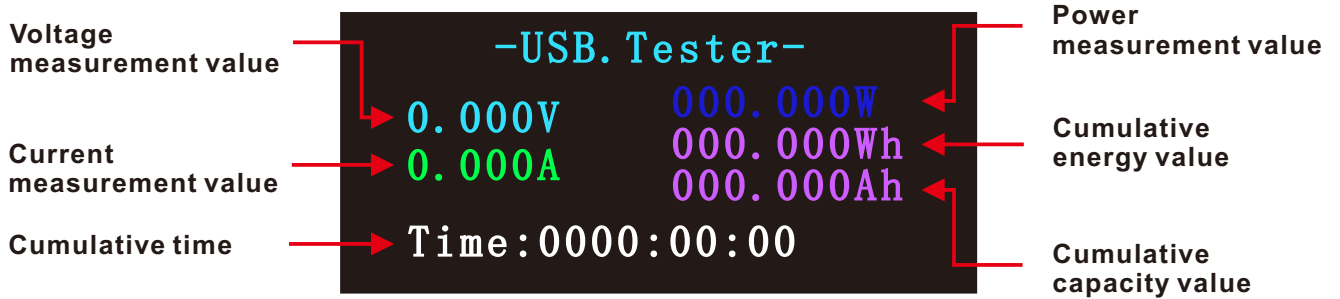


Interface 3

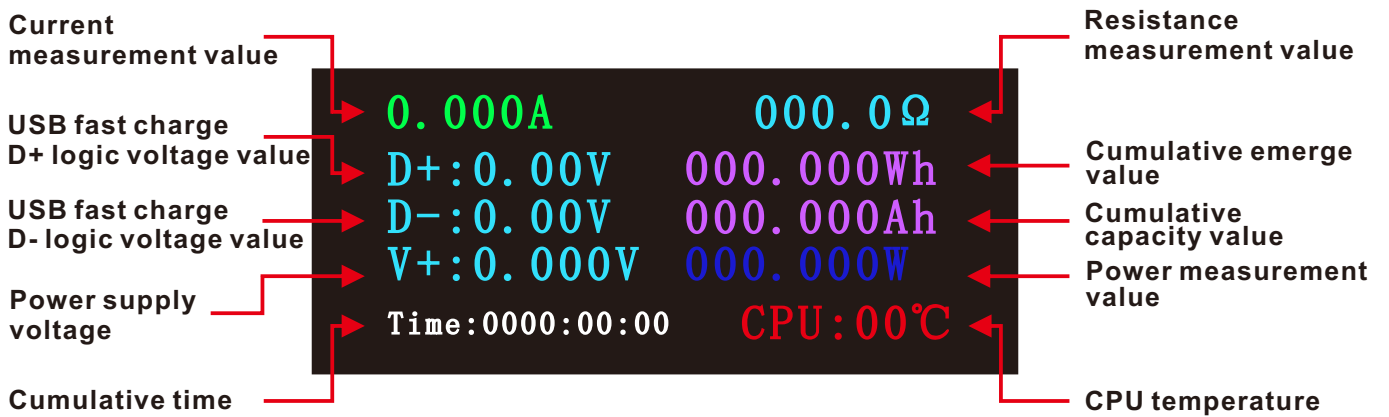
Interface 1 :



Interface 2 :



Interface 3 :



Basic operation

Key description:

The keys are located on the lateral side of the tester, and can be operated in three ways: short pressing, long pressing and quick short pressing. Short pressing enables cyclical switch of measurement interfaces. Long pressing enables flip between the left and right screens.

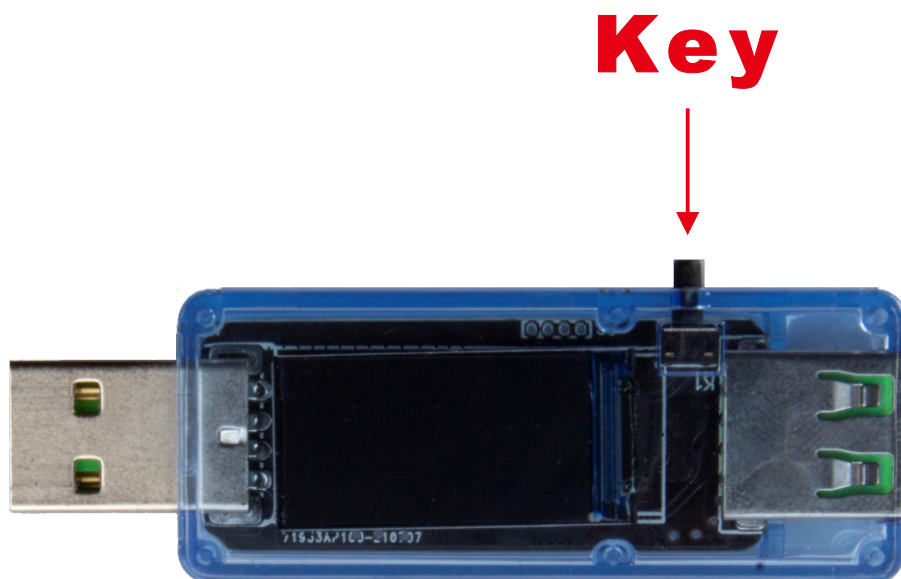
Long press for 3 seconds : Left and right screen display flips

Quick short press for 2 times : Capacity (mAH) display cleared

Quick short press for 3 times : Electricity (Wh) display cleared

Quick short press for 4 times : Timing/time display cleared

Quick short press for 5 times : Capacity/electricity/time/clear



Basic operation

Capacity measurement of the portable charger:

Material preparation: the portable charger to be tested, USB tester, electronic load or mobile phone, charging head;

Data to be checked: capacity and energy values (mAh Wh) of the portable charger, voltage and current values output by the portable charger.

First, fully charge the portable charger and clear the tester; then charge the mobile phone with the portable charger or discharge the portable charger with the electronic load until it automatically shuts down; charge the tester with the charging head, and record two values (mAh Wh) displayed on the tester.

Method 1:

Divide the mWh value displayed on the tester by 0.9; then compare the above calculated value and the Wh value of the portable charger. If these two values differ slightly from each other, it means that the portable charger is in full capacity (the most accurate method).

Method 2:

If the mobile phone is charged at 5V, multiply the mAh value displayed on the tester by 1.5; if it is charged at 9V, multiply the mAh value displayed on the tester by 2.7. If the above two calculated values differ slightly from the nominal mAh value of the portable charger, it indicates that the portable charger is in full capacity.

Basic operation

Test the quality of the data cable:

The quality of the data cable directly affects the charging speed, and even the poor-quality data cable has the risk of burning the mobile phone, thus testing the quality of the data cable becomes also a necessary function. There are two methods to achieve this function, each with its own advantages and disadvantages. Customers can choose the best method by themselves. The length of data cables has a great influence on the actual test results. Generally speaking, the shorter the data cable, the better the tested performance.

Current measurement method:

Test material: mobile phone/original charger/original data cable/USB tester/data cable to be tested.

Test step: discharge the mobile phone to 50%-60% , and measure the charging current with the original charger, USB tester and original data cable, then record the measured current. Replace the original data cable with the data cable to be tested and record the charging current again. The interval between two measurements shall not be too long. The larger the charging current, the better the quality of the data cable. If the charging current differs greatly, it may indicate that the cable quality is extremely poor or the data cable does not support the mobile phone.

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Product: DC voltage-stabilized power supply

Product implementation standard: GBT-17478