

Specification Multifunction Tester
Ruideng RIDEN RD 99,9v/100A OLED

Technical Parameters:

Voltage measurement range: DC00.0-99.9V
Current measurement range: DC00.0-50.0A (50A range)
Power measurement range: 0-999.9-5000W (50A range)
Temperature measurement range: -15 °c ~60°c
9999.9 Ah
Energy accumulation range: 0-99999Wh-9999KWh
(0.5% + 2digits)
Current measurement accuracy: \pm (1% + 2 digits)
Product size: 48mm*29mm*22mm (L*W*H)

Time measurement range: 0-99h59min
DC00.0-99.9A (100A range)
0-999.9-9999W(100A range)
Capacity accumulation range: 0-999.99-
9999.9 Ah
Voltage measurement accuracy: \pm
Product weight: 28g

Display Interface Instruction:



- ① Run time
- ② Power display
- ③ Data set
- ④ Temperature display
- ⑤ Capacity display
- ⑥ Voltage display
- ⑦ Current display
- ⑧ Energy display

Operating instruction:

When measuring, changing range and calibrating zero, it must be connected with the corresponding shunt.

Changing range operation:

Factory default is 100A measuring range; if switch to 50A range, please connect 50A shunt and keep pressing the key to power on, until the screen displays "50A", then loose the key. Now changing range is done.

If you want to switch to 100A range, please connect 100A shunt and operate by same way.

Calibrating zero operation:

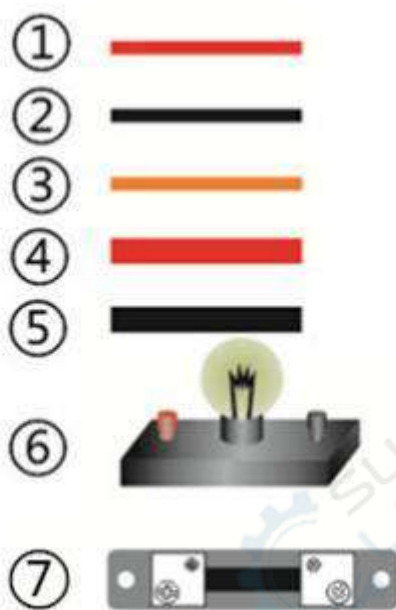
With the aging of components and influence of ambient temp, there might be tiny error for the current reading, especially when measuring low current. To calibrate it: 1, power off the meter. 2, connect the shunt and disconnect the load.

3 press and hold the front button .4, power on the meter.5, release the button when you see “AAA” on the screen. Done

Button Function Instruction:

This tester has 0 and 1 two data groups; and data groups are switched by pressing the key. When data group is the 1 group, the current capacity and energy will be stored after power off. And the stored values will be accumulated after power on. When the data group is the 0 group, the current capacity and energy will be stored after power off; when power on next time, the stored capacity and energy are blinking displayed. But when the new capacity is up to 0.01 Ah, the stored capacity and energy will be covered, and the values will start over. At the two data groups, the accumulated values can be cleared to zero by keeping pressing the key.

The Wiring Diagram Instruction:

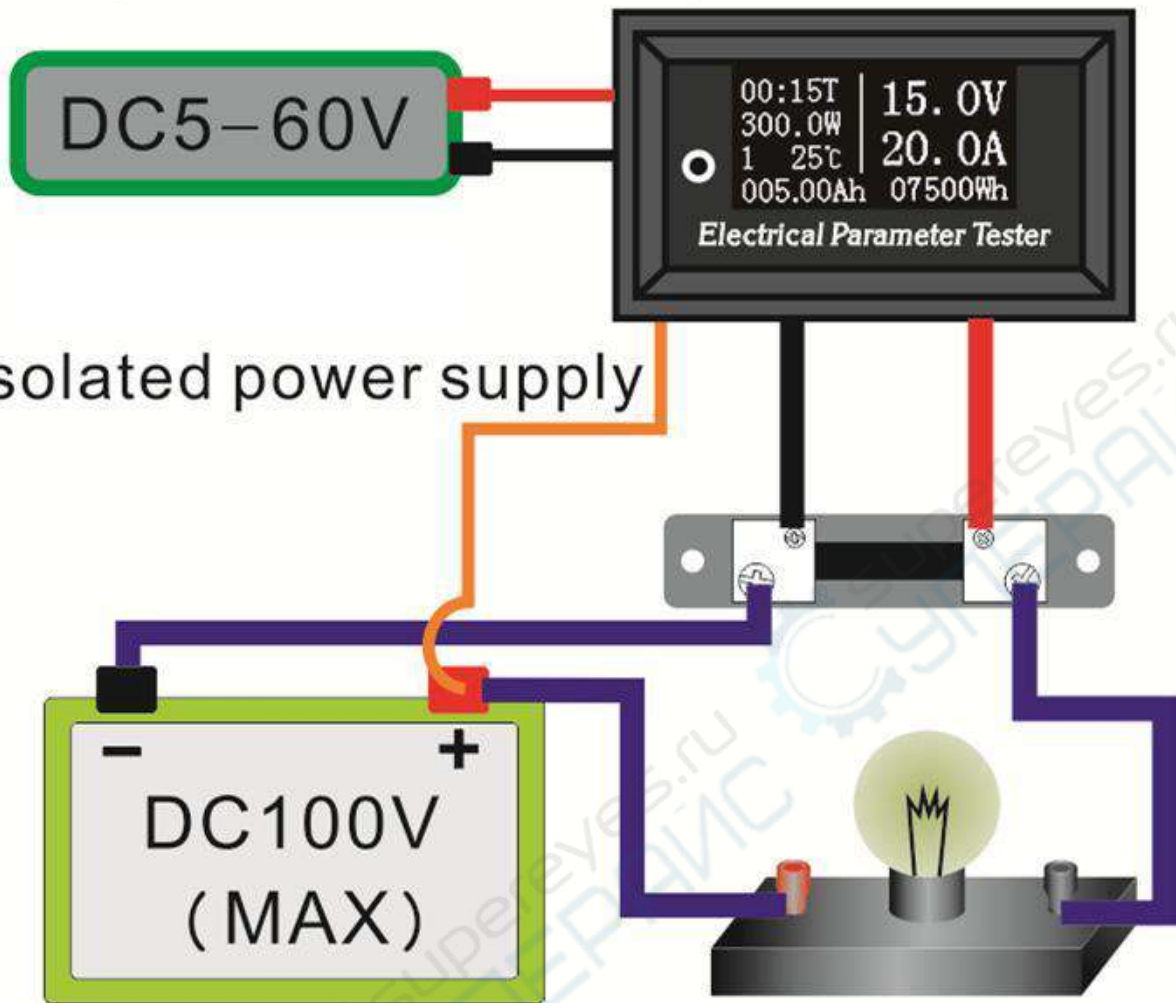


- ① Red thin line
- ② Black thin line
- ③ Yellow thin line
- ④ Red thick line
- ⑤ Black thick line
- ⑥ Load
- ⑦ Shunt

Please ensure proper wiring in strict accordance with the wiring diagram.

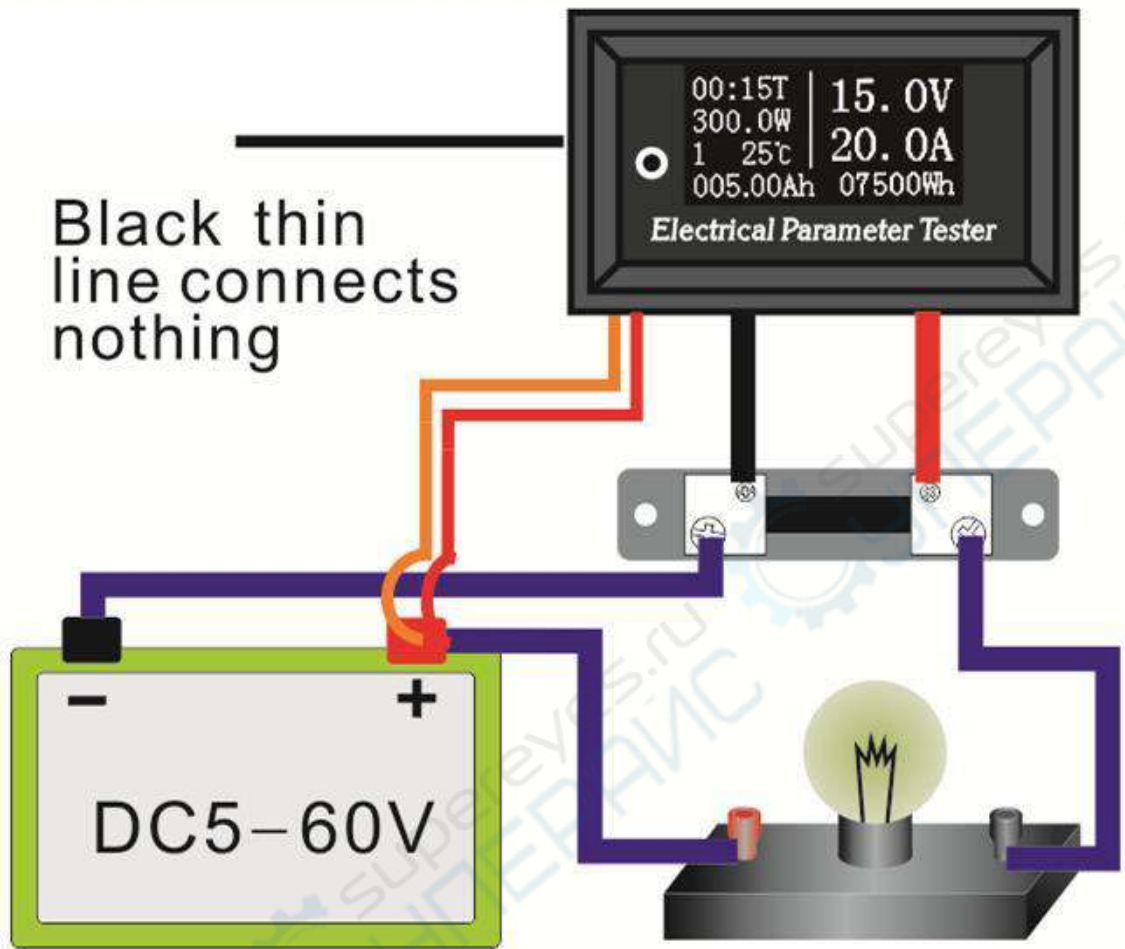
Using Isolated Power Supply to power the meter

The two power supplies must be isolated and don't have any connections between them. The voltage of the isolated power supply must be less 60V



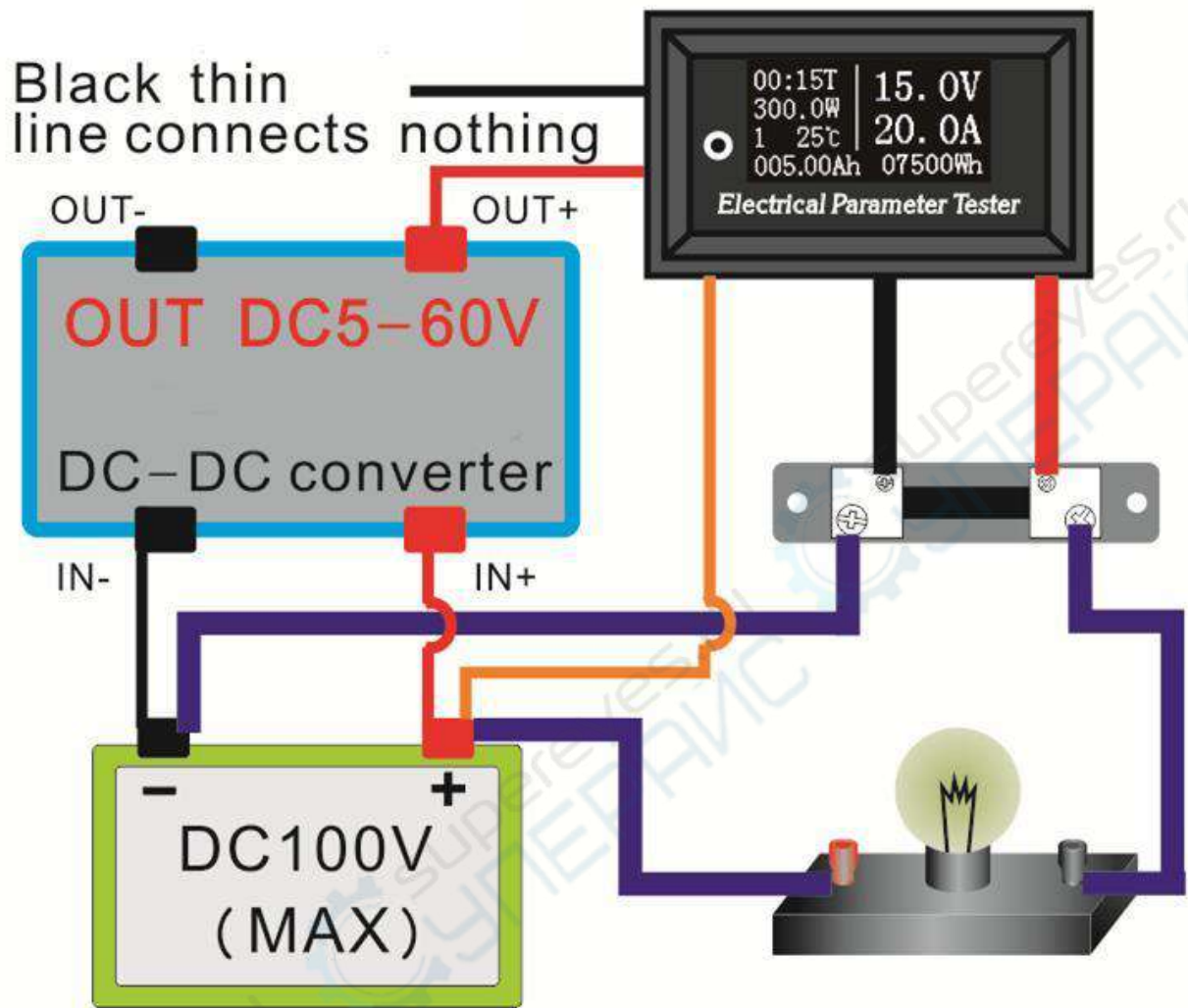
Using system to power the meter

The black thin wire connects nothing and you should use insulator wrap it to avoid short circuit.



Using DC-DC converter to power the meter

The black thin wire connects nothing and you should use insulator wrap it to avoid short circuit.
The DC-DC converter must be common cathode structure.



Package included:

1 x 100V 50A/100A 7in1 OLED Multifunction Tester with 50A or 100 shunt

Wire length: 15cm

Weight: 28g

