



Meiruike Instruction Manual

RK2674B HI-POT TESTER

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**The output voltage run up to 30kV,ensure safety
when testing!**

1、 Summary

RK2674B series hi-pot tester is general high voltage test equipment,it widely used in electrical equipment,bakelite electrical appliances,transformer,power line,power meter,motor,power plugs,cables and other hi-pot test.With the establishment of national safety standards,the hi-pot tester become a indispensable equipment of the variety wireless power plant,electronic products manufacturers.

2、 Main technical index

Output voltage:	AC:0~30kV	DC: 0~30kV
Voltage resolution:	0.1kV	
Voltage accuracy:	±5%	
Leakage current:	AC:0~2/20mA	DC: 0~2/10mA
Current resolution:	0~2mA: 0.001mA	2~20mA: 0.01mA
Current accuracy:	±5%	
Test time setting:	0~999s	
Maximum output power:	600VA	
Transformer capacity:	1500VA	
Power requirement:	220V ±10% , 50Hz ±5%	
Output waveform:	with power supply 50Hz sine waveform	
Work environment:	0°C ~40°C, ≤85%RH	
Exterior dimension:	600*700*1300mm	
Weight:	about 60kg	

3、 Matters needing attention before use

You should read the following matters needing attention carefully before use:

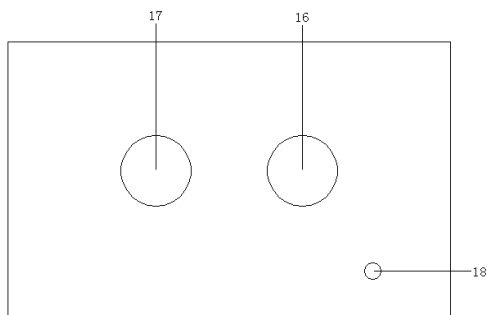
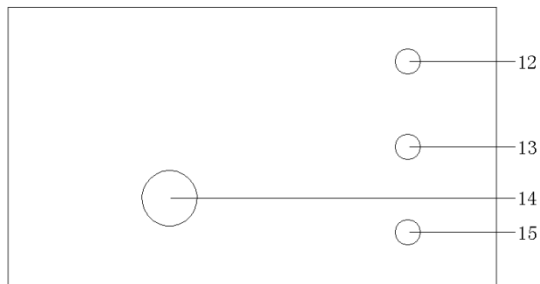
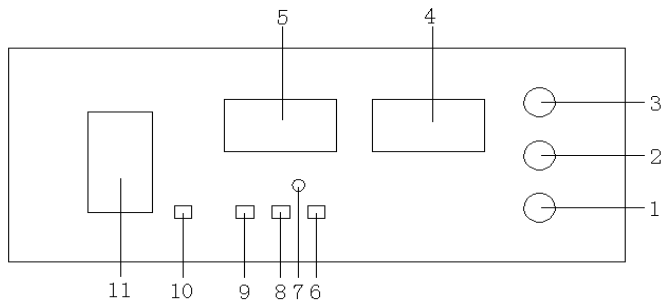
- (1)You must use the three hole power socket,and grounding well.
- (2)The grounding port must be connected to the power supply reliably.
- (3)The operator should wear insulated gloves and insulated pad with foot.
- (4)Turning the voltage regulation knob counterclockwise before turning on the power supply of the instrument.
- (5)Keep the instrument in a "reset" state before preset the function.
- (6)Don't touch the tested objects and test leads when testing.
- (7)Don't short the high voltage output port with the shell or ground wire artificially,so as not to damage the instrument.
- (8)In case of an accident,the power should be cut off immediately.
- (9)It should be repaired immediately when the indicator lights or alarm is breakdown.
- (10)As a result of the leakage current of the step-up transformer,the ammeter will indicate

when no load boost.If need the accurate test,please write down and add the current value of the no-load test voltage to the leakage current value when setting.

4、 Instructions:(refer to the front faceplate function diagram)

- (1) Power indicator light when connect to the power supply.
- (2) "Test" light: lights on when the instrument is "on"
- (3) "Super leakage"light:when the leakage current exceeds the setted value that is the "super leakage",the "Super leakage"lamp lights on and alarm,the output voltage is cut off.You should press the "reset" button,then the "super leakage"lights off,turn the voltage adjust knob counterclockwise to the end,then prepare for the next test.
- (4) "Voltage" indicator:three digit voltmeter,indicating the output voltage value.
- (5) "Current" indicator:Three-and a half digital ammeter,indicating the leakage current value.
- (6) "AC/ DC" switch:press for DC,pop-up for AC.
- (7) "Leakage current" alarm value preset potentiometer:press the "preset/test" switch to adjust the potentiometer,preset the leakage current alarm value,and display on the current display window.
- (8) "Leakage current" range selection:normal for 0~2mA/press for 2~20mA(AC) or 2~10mA (DC).
- (9) "Preset/test" switch:press for "preset" status,pop-up for "test" status.
- (10) "Timing/manual" switch:press for the "timing" test,pop-up for "manual" test."Timing" indicator: three digit display,display timing.
- (11) Timer,adjust the timing dial switch,that can set the timing.
- (12) "Start" button switch:press this button switch,the instrument enter the test state,then the test lamp light.
- (13)"Reset" button switch:press this button switch,the instrument returns to the state to be tested,there is no high voltage output.
- (14) "Voltage regulation" knob:It used to adjust the test voltage value.
- (15) Power switch:The instrument power supply.
- (16) High voltage AC output port:the test voltage output port of instrument.
- (17) The grounding port:the tested object connect to the other port when testing.
- (18) High voltage DC output port:test voltage output port.
- (19) Socket: AC 220V power socket,it built-in fuse.

Schematic diagram of instrument display face plate



5、 Operation method:

- (1) Turn on the power: make sure that "the voltage regulation knob" is set to "0" and turn on the power switch.
- (2) Set the "leakage current" value: press the switch "9", and adjust the "leakage current preset" potentiometer "7" to preset the "leakage current" at the desired value.
- (3) Connected to the test object: according to the needs of the test object, connect the test line and the test pieces object well.
- (4) "The timing test": adjust the timer dial switch, set the time required, and then press the "start" switch and adjust the voltage adjust knob to make the output voltage to the required value, then turn the timing switch "10" on the "timing" position, the timer is light on, then start timing.
- (5) Manual test: turn the timer switch "10" on the "manual" position, then press the "start" switch.

(6) During testing, if the "leakage current" value detected exceeds the preset "leakage current" value, the instrument will alarm and cut off the output voltage automatically. Then press the "reset" switch and back to the condition to be tested.

(7) If the "leakage current" detected does not exceed the value setted, that time's up or press the "reset" switch, then back to the condition to be tested.

Eg : Test conditions: test voltage AC:20000V, the maximum testing leakage current AC:1.5mA, timing: 30 seconds

Test equipment: RK2674B hi-pot tester

Test procedure:

1. Check whether the "voltage regulation" knob of the instrument rotate to the ends counterclockwise, if not, turn it counterclockwise.

2. Plug in the power cord and turn on the power switch

3. Select the appropriate AC and DC voltage measuring file: set the "AC / DC" switch to "AC" position

4. Select the appropriate leakage current range: set the leakage current range switch in the "2 mA" position.

5. The preset value of leakage current: press the "leakage current presetting switch", set in a preset position, and then adjust the current value of leakage current preset potentiometer in the current meter to "1.500" mA. Then pop-up the switch and keep in the "test" position.

6. Timing setting: set the "timing/manual" switch in the "timing"

position, adjust the timer dial switch and set it in the "30" seconds.

7. The high voltage test rod is inserted into the AC voltage output port, and connect the other black wire hook and the black terminal of the instrument (ground end) well.

8. Connect the test line, ground wire and tested object well (if test instrument, the general connecting method is: Black clip (grounding port) connected with the grounding port of measured power line plug, the other port connect with the high-voltage port plug (L or N). Note that the tested object should be placed on the working table and away from the front face plate. The rear part of the instrument is a high pressure zone, Don't enter when testing.

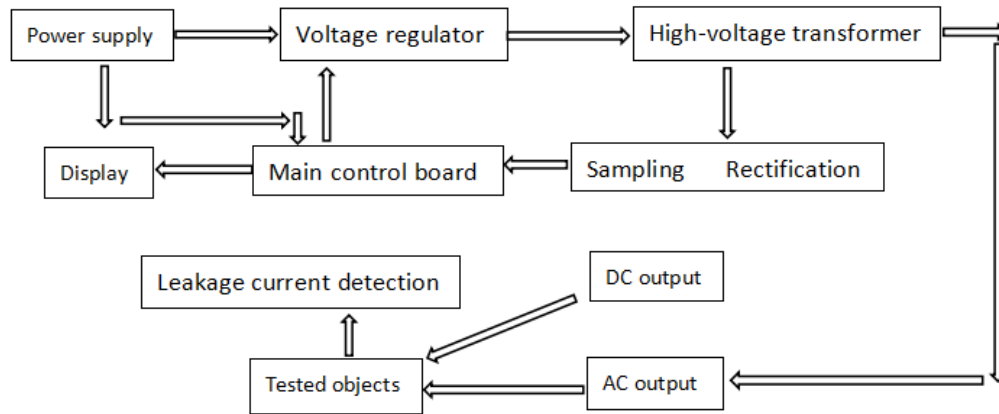
9. Check the instrument settings and connect correctly, then start testing.

10. Press the "start" switch of the instrument, adjust the voltage regulation knob slowly then start boosting, observe the voltage value on the voltmeter to "20" kV. At this point the leakage value on the leakage current meter are on the rise, such as the leakage current value exceeds the setted

value (1.5mA) during the rising, the instrument will alarm and cut off the output voltage automatically, so that the measurement is unqualified, press the "reset" button to return the

starting state of the instrument. If the leakage current doesn't exceed the setted value, it will reset automatically after time's up. It indicates that the tested object is qualified.

6、 Block diagram of instrument principle



7、 Attachment

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|--------------------|--------|
| (1) Power line | 1 root |
| (2) Test line | 1 root |
| (3) Grounding line | 1 root |
| (4) Manual | 1 copy |
| (5) Certificate | 1 copy |



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