

## LC-100KV

### PORTABLE TRANSFORMER OIL DIELECTRIC STRENGTH TESTER

LC-100KV automatic portable oil tester perform accurate breakdown voltage tests on mineral, ester and silicon insulating liquids. Moulded test vessels give repeatable results in the field and laboratory with lock in precision electrode gap setting adjustment wheels. The transparent, shielded lid is a key feature enabling users to see what is happening within the test chamber. It has the functions of overcurrent, overvoltage and short circuit protection.

The LC-100KV transformer oil tester has the advantages of simple operation and beautiful appearance. Due to the full-automatic digital microcomputer control, it has high measurement accuracy, strong anti-interference ability, safety and reliability. It makes evaluating transformers and other dielectric fluid-filled equipment through proper insulated oil testing easier, more accurate, and more economical than ever before.

### Function & Features

1. 0-100KV, max 100KV;
2. With USB, RS232 port;
3. Stable output voltage;
4. 7 inch touch colour display;
5. Voltage rise time accuracy 2%;
6. Programmed test sequences;
7. Insulating oil breakdown voltage test;
8. Voltage resolution and accuracy  $\pm 1\%$ ;
9. Ultra fast ( $< 10\mu s$ ) HV switch off time;
10. Suitable for mineral, ester and silicon oils;
11. With temperature and humidity and clock;
12. Electromagnetic compatibility concept(EMC);
13. Standard GB/T507-2002, DL429.9, IEC60156;



### Application

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|-------------------------------|---|
| 1. Universities;              | 7. ISO17025 Electrical laboratory;                              |
| 2. Power plant;               | 8. Railway electrical department;                               |
| 3. Research institutes;       | 9. Electricity power bureau & power company;                    |
| 4. Insulation oil factory;    | 10. Power engineering commissioning company;                    |
| 5. Electrical testing center; | 11. Electrical department of industrial and mining enterprises; |
| 6. Transformer manufacturers; |   |

## Parameters

Electrical parameters	
Power supply	AC 220V±10% or 110V±10%, 50/60HzAC
Voltage output	0-100KV or 0-80KV
Accuracy	2%
Capacity	1.5KVA
Voltage step	0.5kv/s-5.0kv/s
Power distortion rate	< 1%
Electrode gap	2.5mm
Test times	6 times (1-9 times optional)
Static release time	900s (0-9999 s optional)
Interval rest time	300s (0-999 s optional)
Mixing time	15s (0-999s optional)
Programmable	Yes
LCD	7 inch touch TFT LCD
Communication	RS232 and USB port
Volume of the oil cup	400ml/200ml
Storage data	1000sets
Printer	internal installed 58mm wide thermal printer.
Standard	GB/T507-2002 or 1986, DL429.9, IEC60156,ASTM D1816 or D877
Mechanical parameters	
Dimension (L×W×H) (mm)	410x310x370
Weight (kg)	36
Environmental conditions	
Operating temperature	-10°C to 50°C
Storage temperature	-40°C to 70°C
Relative humidity	≤85%RH