

## LC-100KV

### PORTABLE TRANSFORMER OIL DIELECTRIC STRENGTH TESTER

LC-100KV automatic portable oil test sets 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.

### Application

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



### Function & Features

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

## 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 (0-9000 s optional)                                 |
| Interval rest time       | 300s (0-900s optional)                                   |
| Mixing time              | 15s (0-250s 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 D8 |
| Mechanical parameters    |  |
| Dimension (L×W×H) (mm)   | 650x470x410  |
| Weight (kg)              | 38   |
| Environmental conditions |  |
| Operating temperature    | -10°C to 50°C  |
| Storage temperature      | -40°C to 70°C  |
| Relative humidity        | ≤85%RH   |