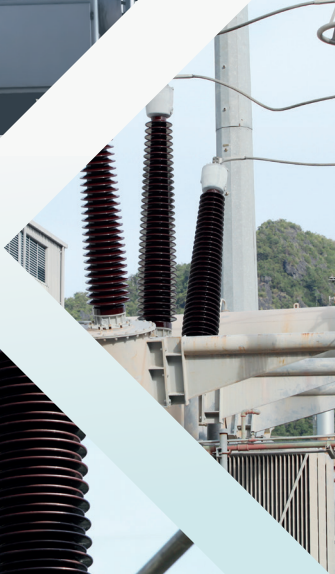
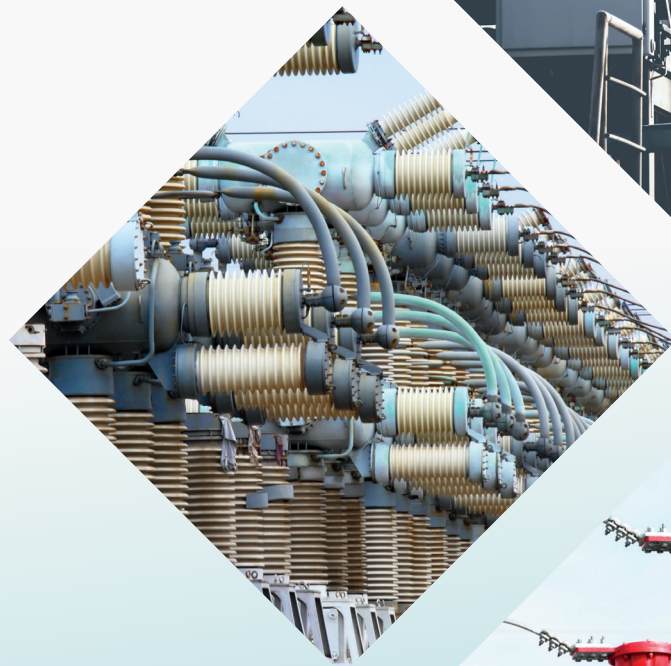




# VABO-80 SERIES

80 kV Circuit Breaker Vacuum Bottle Tester  
with Built-in Printer





### VABO-80 SERIES 80 kV Circuit Breaker Vacuum Bottle Tester with Built-in Printer

VABO-80 is designed using advanced engineering technology to test circuit-breaker vacuum bottles up to 80 kV DC. VABO-80 has fast, easy and accurate measurement features through its user-friendly software.

VABO-80 is a battery-powered device (optional feature) that allows users to perform tests even without a power supply during on-field tests.

Users can select the test voltages from 10kV to 80kV DC with step voltages of 1kV, and the user can define the test time from 5 seconds to 2 minutes.

The leakage current preset values of VABO-80 are 100 µA, 200 µA and 300 µA.

The test can be performed after setting the output voltage and test time with a predefined cutoff for leakage current. After the execution of the test, if the leakage current doesn't exceed the preset leakage current value, the screen will show "TEST PASSED".

If the leakage current exceeds the preset value, then the voltage will be immediately turned off and shows "TEST FAILED" on the screen. In the case of HV presence, the HV indicator on the device illuminates with an audible tone.

VABO-80 features a 4.3-inch large colour touch display, which is visible under both bright sunlight and dim light conditions. With the HighTest Data Management Platform (DMP Software), users can analyse and manage measurement results on PCs.

Operators can easily print the measurement results with the 2.25-inch built-in printer of VABO-80. The results can also save to a USB flash drive or the device's internal memory.

Multi-language capability and user-friendly operation menu make it easy to control VABO-80.

VABO-80 is a lightweight, compact and rugged device with the protection of IP67 (case closed), which makes it perfect for field tests.

#### WHY DO WE TEST VACUUM BOTTLE INTERRUPTER?

Fast and reliable protection is the most important in case of any faults occurring in the electrical power system.

Suppose the circuit breaker does not succeed in clearing the fault at the appropriate moment. The resulting accident can be dangerous in terms of both personnel injury and equipment damage and cause heavy losses.

Even though circuit breakers can be very reliable, they tend to gather dirt, moisture, and contaminants on the poles and on the exterior surface of the interrupter, which may cause insecurity during operation. Once the air finds its way into the interrupter and leakage starts to appear, the vacuum bottle becomes unreliable.

For the mentioned above reasons and more, Vacuum bottle interrupters must be tested and maintained to ensure proper operation during electrical faults.

The manufacturers of circuit breakers recommend an insulation integrity test that is well documented in international test standards such as IEC and IEEE.

Testing high voltage circuit breakers present a series of challenges. HIGHTEST's knowledge and unrivalled experience within the power circuit breaker industry resulted in the design of VABO-80. This lightweight and impressive device tests vacuum interrupters by applying DC high voltage up to 80 kV.



## Features

- Circuit Breaker Vacuum Bottle Interrupter Testing
- Automatic Testing
- 10 kV to 80 kV DC with 1 kV step voltages
- High Accuracy (1.5 %)
- 100  $\mu$ A, 200  $\mu$ A and 300  $\mu$ A leakage current preset value
- Battery (Option)
- 2.25-inch Built-in Printer
- Internal memory (storage up to 200 records)
- External Memory- USB flash drive
- PC Software
- 4.3-inch TFT touch colour Display
- IP67 Protection Class (case closed)
- Light-Weight

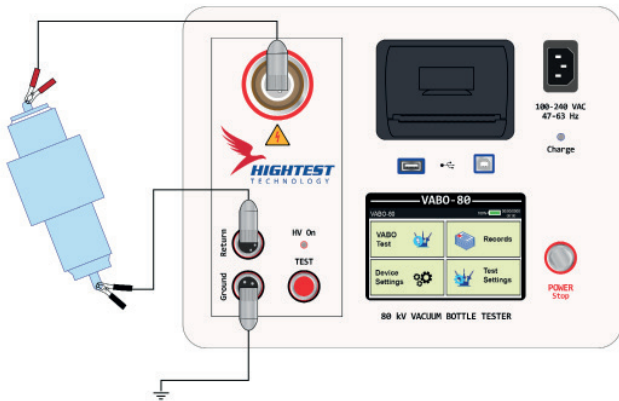


Illustration: Circuit Breaker Vacuum Bottle Testing with VABO-80

## Technical Specifications

<b>Measurement/Test</b>	Circuit Breaker Vacuum Bottle
<b>Output Voltage</b>	10 kV to 80 kV DC with 1 kV step voltages
<b>Output Ripple Voltage</b>	2% at 20 kV- 80 kV ; 3% at 10 kV
<b>Discharge Time</b>	< 3 seconds
<b>Leakage Current Preset Value</b>	100 $\mu$ A, 200 $\mu$ A and 300 $\mu$ A
<b>Accuracy</b>	Typical: 1.5 %
<b>Input Power</b>	100-240 Vac, 47/63 Hz
<b>Built-in Battery</b>	Yes, 14.4 V 3.45 Ah (Optional; Model – VABO-80B)
<b>Display</b>	4.3-inch TFT touch Display (visible under bright sunlight and dim light)
<b>Internal Memory</b>	Up to 200 records (recommended for better device performance)
<b>Communication</b>	USB (USB 2.0/1.1 Standard-A and USB 2.0/1.1 Standard-B)
<b>PC software</b>	DMP Software
<b>Printer</b>	2.25-inch Built-in Printer
<b>Dimensions</b>	12.5" x 9.8" x 8.0" 318 mm x 249 mm x 203 mm
<b>Weight</b>	4 kg (model with battery)
<b>Operating Temperature</b>	-10 °C to +60 °C
<b>Storage Temperature</b>	-30 °C to +70 °C
<b>Humidity</b>	95% RH non-condensing
<b>Protection Class</b>	IP67 (case closed)
<b>Set of Package</b>	VABO-80, Power Cable, Ground Cable, 3m Test Cable, USB Cable, Printer Paper (x2), USB flash drive, Instruction Manual (Soft Copy), DMP Software, Soft Cable Carrying Case
<b>Options</b>	Hard Carrying Case, Battery (Optional; Model – VABO-80B)

Specifications are valid at/under 25 °C temperature. \*Contents subject to change without notice.

## Ordering Information

**VABO-80**

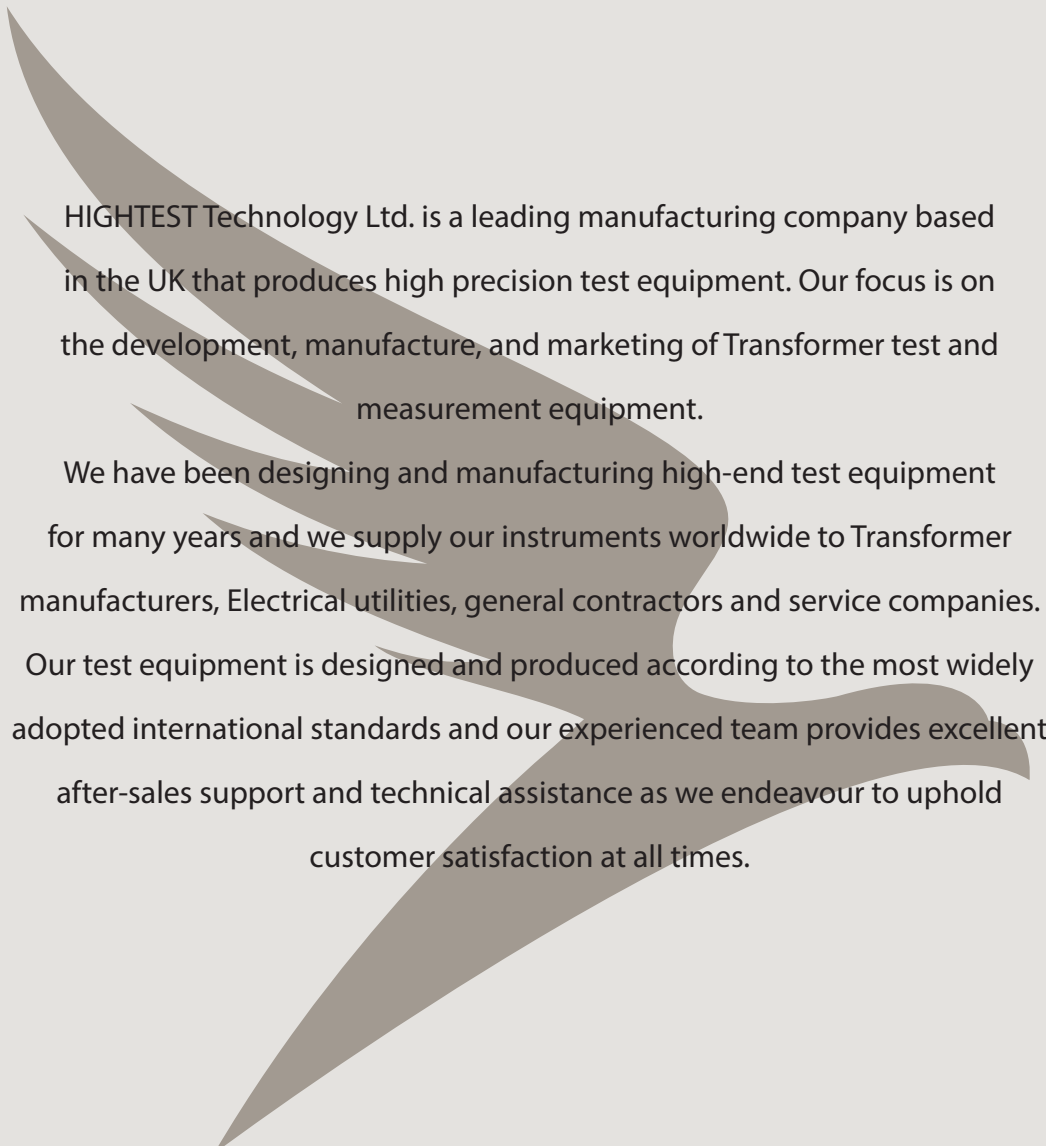


80 kV Circuit-Breaker Vacuum Bottle Tester with Built-in Printer

**VABO-80B**



80 kV Circuit-Breaker Vacuum Bottle Tester with Built-in Battery & Printer



HIGHTEST Technology Ltd. is a leading manufacturing company based in the UK that produces high precision test equipment. Our focus is on the development, manufacture, and marketing of Transformer test and measurement equipment.

We have been designing and manufacturing high-end test equipment for many years and we supply our instruments worldwide to Transformer manufacturers, Electrical utilities, general contractors and service companies. Our test equipment is designed and produced according to the most widely adopted international standards and our experienced team provides excellent after-sales support and technical assistance as we endeavour to uphold customer satisfaction at all times.



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