

# **VABO-80**

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

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## VABO-80 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 with its user-friendly software.

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

The user can select the test voltages from 10kV to 80kV DC with step voltages of 1kV and the test time can be defined by the user from 5 seconds to 2 minutes.

The leakage current preset values of VABO-80 are 100  $\mu\text{A},$  200  $\mu\text{A}$  and 300  $\mu\text{A}.$ 

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

In the case, 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 with a 4.3-inch large colour touch display, which is visible under both bright sunlight as well as 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 to the device's internal memory.

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

VABO-80 is a light-weight, 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 electric power system.

If 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 causing 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, and once the air find its way into the interrupter and leakage starts to appear, the vacuum bottle becomes unreliable.

For the above mentioned reasons and more, vacuum bottle interrupters must be tested and maintained to ensure proper operation during electrical faults. Insulation integrity test is recommended by the manufacturers of circuit breakers and well documented in international test standards 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 VABO-80. This lightweight and impressive device tests vacuum interrupters by applying DC high voltage up to 80 kV.

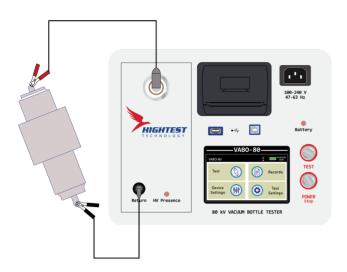


Illustration:Circuit Breaker Vacuum Bottle Testing with VABO-80

### **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 μA, 200 μA and 300 μA leakage current preset value
- Optional Battery
- 2.25-inch Built-in Printer
- I Internal memory (storage up to 200 records)
- External Memory- USB flash drive
- PC Software
- 4.3-inch TFT touch colour Display
- I IP67 Protection Class (case closed)
- Light-Weight

Measurement/Test	Circuit Breaker Vacuum Bottle Interrupter
Output Voltage	10 kV to 80 kV DC with 1 kV step voltages
Output Ripple Voltage	2% at 20 kV- 80 kV ; 3% at 10 kV
Discharge Time	< 3 seconds
Leakage Current Preset Value	100 μA, 200 μA and 300 μA
Accuracy	Typical: 1.5 %
Input Power	100-240 Vac, 47/63 Hz
Built-in Battery	Yes, 14.4 V 3.6 Ah (Optional; Model – VABO-80B)
Display	4.3-inch TFT touch Display (visible under bright sunlight and dim light)
Internal Memory	Up to 200 records (recommended for better device performance)
Communication	USB (USB 2.0/1.1 Standard-A and USB 2.0/1.1 Standard-B)
PC software	DMP Software
Printer	2.25-inch Built-in Printer
Test Plan	Up to 6 plans
Dimensions	12.5" x 9.8" x 8.0"
	318 mm x 249 mm x 203 mm
Weight	4 kg (Model with Battery)
<b>Operating Temperature</b>	-10 °C to +60 °C
Storage Temperature	-30 °C to +70 °C
Humidity	95% RH non-condensing
Protection Class	IP67 (case closed)
Set of Package	VABO-80, Power Cable, Ground Cable , 10 feet Test Cable, USB Cable, Printer Paper (x2), USB flash drive, Instruction Manual (Soft Copy), DMP Software, Soft Cable Carrying Case
Options	Hard Carrying Case, Battery (Optional; Model – VABO-80B)

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

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## **Technical Specifications**

HighTest Technology Ltd. is a leading manufacturing company based in the UK which produces highly precise test equipment. We mainly focus on the development, manufacture, and marketing of Transformer test systems and Solar test devices. We have several years of experience in the field of developing and producing high-end test equipment. Customer satisfaction is our prime motto. We supply our test equipment worldwide to Transformer manufacturers, Electrical utilities, PV module/ Solar panel manufacturers, general contractors and service companies. Our test equipment is designed and produced according to the most widely adopted international standards. As we value our customers the most, our well-experienced team always provide excellent after-sales support and technical assistance.



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