



# 100/120 HVT Series

## AC Hipot Testers

■ **The HVT Series** AC hipot testers are an economical solution to AC field-testing of bucket trucks, aerial platforms, vacuum interrupters, breakers, switchgear, and other electrical apparatus. Models 100HVT and 120HVT offer 100kV or 120kV respectively. Both models are handcart mounted for portability and come complete with input line cord, interconnecting cable and ground leads.

The 100HVT and 120HVT series test sets are specifically designed in meeting test procedures of the ANSI/SIA A92.2 1990 specification applied to the insulating boom of work platforms and bucket trucks. The HVT series assures accurate voltage measurements using an external high voltage divider, rather than less accurate primary metering. The HVT series also features a triple range current meter in the return leg of the high voltage transformer for accurate current measurements. A guard circuit prevents stray or surface leakage from being measured by the current meter. To ensure safe operation the unit is equipped with a fast acting circuit breaker, zero start interlock and provision for an external interlock.



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### FEATURES

- ☑ **Compact portable** hand cart design
- ☑ **Zero start** interlock
- ☑ **Single end grounded** high voltage test transformer
- ☑ **Separate guard** and **return**
- ☑ **Metering accuracy**  $\pm 2\%$  full scale
- ☑ **External** high voltage divider
- ☑ **Triple range** voltmeter
- ☑ **Triple range** current meter
- ☑ **Fast acting** overload circuit breaker
- ☑ **External** interlock provision

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### BENEFITS

**Ideal for field testing** – compact, lightweight and rugged makes it suitable for field orientated applications

**Operator Safety** – zero start and external interlock prevents high voltage to be energized until operator is ready

**Simple to Use** - a minimal amount of setup time and a simple control panel allows simple testing every time

**Accurate Leakage Current Measurement** - while guard circuit eliminates stray leakage currents

**Meets ANSI / SIA A92.2** - test specifications

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### APPLICATIONS

AC Hipot testing of:

- **Aerial platform**
- **Bucket truck**
- **Vacuum bottles**
- **Vacuum interrupters**
- **Switchgear**
- **Hot sticks**
- **Any high voltage AC test requirement**  
(within current limitations)

**TECHNICAL SPECIFICATIONS**

General	100HVT	120HVT
Input Voltage	120V, 50/60Hz (catalog suffix – A) 220V, 50/60Hz (catalog suffix –B)	120V, 50/60Hz (-A suffix only)
Output Voltage	0 –50kV or 0-100kV	0 - 120kV
Output Current	50mA (100kV tap) 100mA (50kV tap)	10mA
Voltmeter	0-25/50/100 kV AC	0-30/60/120 kV AC
Current Meter	0-1/10/100 mA	0-.250/1/10 mA
Meter Accuracy	± 2% full scale accuracy	

**Weights and Dimensions**

100HVT	17.4"W x 14.5"D x 31.9"H (441 x 368 x 810mm) Unit weight: 240lbs, Shipping weight: 306lbs
120HVT	17.4"W x 14.5"D x 31.9"H (441 x 368 x 810mm) Unit weight: 240lbs, Shipping weight: 306lbs

**SCOPE OF SUPPLY**

- Qty. 1 AC HV Tank with 25 feet (7.6m) interconnecting cable
- Qty. 1 Input line cord, grounded type 10 feet (3 m)
- Qty. 2 Return /ground leads, 25 feet (7.6 m)
- Qty. 2 Shielded interconnecting cable for output current and volt metering 25 feet (7.6m)
- Qty. 1 Interlock plug
- Qty. 1 Calibration certificate
- Qty. 1 User's Manual

**ORDERING INFORMATION**

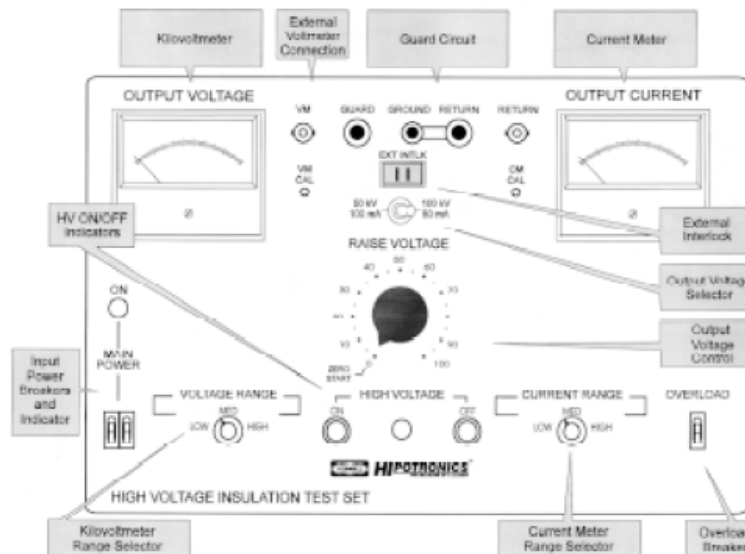
**System**

120kV @ 1.2kVA	<b>120HVT-A</b>
50/100kV @ 5kVA	<b>100HVT-A or 100HVT-B</b>

**Accessories**

Spare Parts Kits	<b>SPK1-100HVT or SPK1-120HVT</b>
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**CONTROL PANEL**



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