

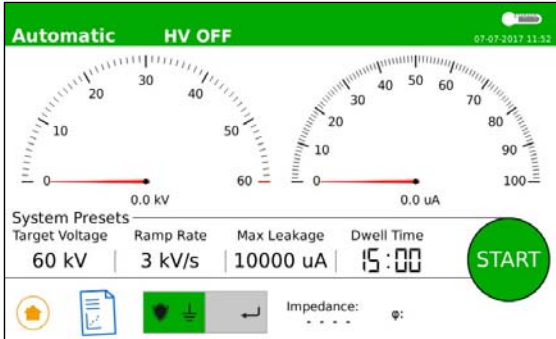
HVT-DI SERIES

Digital AC Hipot Testers – 30kV, 60kV, 100kV, & 120kV



The HVT-DI Series AC Hipot Testers are the most modern digital solution to AC field-testing of bucket trucks, aerial platforms, vacuum interrupters, breakers, switchgear, and other electrical apparatus. Each model includes a portable digital controls section and bonnet and is complete with an input line cord, interconnecting cable and ground leads.

The 120kV model is specifically designed for ANSI/SIA A92.2 specification procedures for testing insulating booms on work platforms and bucket trucks. Whereas, the 30kV and 60kV models are designed to perform quick and accurate AC dielectric tests. In addition, the 100kV model is designed for higher output current, up to 100mA at the 50kV tap. The HVT Digital series assures accurate voltage and current measurements using a high voltage divider and double current meter in the return leg of the high voltage transformer. 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 fuse, an external interlock, and E-Stop.



FEATURES

- Lightweight, rugged design** for field use with wheels
- Environmentally friendly** FR3™ transformer oil
- Multiple measurements** including output voltage, leakage current, impedance, and phase angle
- Adjustable test parameters** such as target voltage, maximum leakage current, ramp rate, and dwell time
- Record and view test results** in the internal memory
- 7" color touchscreen display** with adjustable brightness
- Most accurate current measurement** and guard circuit designed to eliminate stray leakage currents
- Meets ANSI/SIA A92.2** test specifications

BENEFITS

- Simple to Use** with minimal amount of setup time and intuitive control panel allows for simple testing
- Sturdy and portable** design
- User-friendly** touchscreen interface
- Easy to share results** via USB transfer
- Safe operation** with interlock and emergency stop

APPLICATIONS

Brief Description

- Aerial Platform
- Bucket Trucks
- Hydraulic hoses
- Hot Sticks, Gloves, and Ropes
- Switchgears, Vacuum bottles, and Vacuum Interrupters



TECHNICAL SPECIFICATIONS

Model #	30HVT-DI	60HVT-DI	120HVT-DI	100HVT-DI
System Output	Voltage	0.4 – 30kV	0.4 – 60kV	1 – 120kV
	Frequency	50/60Hz		
	Current	10mA		50mA (100kV tap) 100mA (50kV tap)
Current Ranges (auto)	0 - 100µA / 0.1 – 10mA			0 - 1000µA, 0.1 – 100mA
Voltage & Current Measurement Accuracy	± 1.5% of Reading ± 0.2% F.S.			
Voltage Resolution	100V			
Current Resolution	0.1µA			
Voltage Divider Location	Internal or External			External
Partial Discharge	n/a			≤10pC at <30kV
Phase Angle	± 10°			
Input	90 – 265VAC, 50/60Hz			
Duty Cycle	5min ON / 5min OFF, repeated maximum of 6 times, then OFF for 2hrs			
Dimensions (W x D x H)	Controller	20in x 14in x 20in (50cm x 35cm x 51 cm)		
	Bonnet	12in x 11in x 12in (31cm x 28cm x 31cm)	14in x 12in x 14in (36cm x 31cm x 36cm)	17in x 14in x 32in (43cm x 36cm x 81cm)
Weight	Controller	35lbs (16kg)		
	Bonnet	30lbs (14kg)	80lbs (37kg)	135lbs (62kg)
Safety Features	Emergency Stop Visual Warning Indicators External Interlock Audible Warning Indicator	Hand Operated Interlock Switch (optional) External Warning Lamp (optional) Foot Operated Interlock Switch (optional)		
Display	7" TFT , 800 x 480, Color Touch Screen			
Interfaces	USB 2.0 for Memory Stick			
Output Data Format	CSV			
Calibration Interval	1 year recommended			
Languages	English, Spanish, Portuguese, French, German, Mandarin			
ECCN: 3A992.A			HTS: 9030.39.0100	

Notes: The partial discharge level is inherent to the equipment itself without considering possible external radiated interference from the customer's dedicated mains power supply or ground noise.

	Electronic Components		High Voltage Components	
	Temperature	Humidity (r.h. non-condensing)	Temperature	Humidity (r.h. non-condensing)
Operation	-10°C ... +50°C	5 ... 95%	-10°C ... +50°C	5 ... 95%
Storage	-20°C ... +70°C	5 ... 95%	-20°C ... +70°C	5 ... 95%

SCOPE OF SUPPLY

Controller and HV transformer
 25ft HV interconnect cable with clamp
 25ft HV return cable (BNC)
 15ft HV ground cable
 6ft input power cord
 Interlock plug
 Voltmeter probe (100kV and 120kV models)
 USB drive with digital copy of manual
 Calibration certificate

STANDARD OPTIONS

HHDA13-280 – 120kV rated grounding stick
HH-VMP60 – 60kV rated voltmeter probe for HVT-DI series
HH-VMP120 – 120kV rated voltmeter probe for HVT-DI series
HH-HS-DI – Hand operated interlock switch
HH-FS-DI – Foot operated interlock switch
HH-WARN-DI – Safety Strobe light with magnetic base
HH-CART-DI – Hand cart to move HVT-DI controller and bonnet
EXT-WARN-1 – One-year extended warranty