

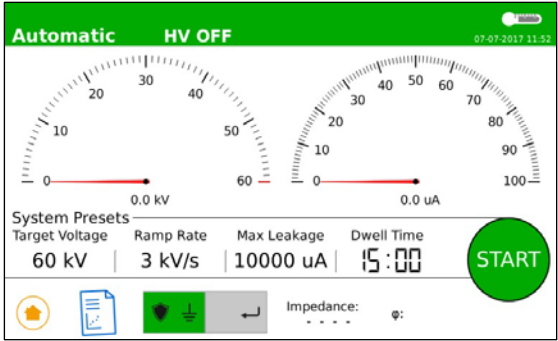
HVT-DI SERIES

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
- 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
- HIPODirect Mobile App Compatible: View, Share, Upload** test reports to online cloud, and update firmware all through WIFI Direct

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	1 – 100kV
	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 ≤5pC at <60kV*
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.

*≤5pC at <60kV Optional

	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

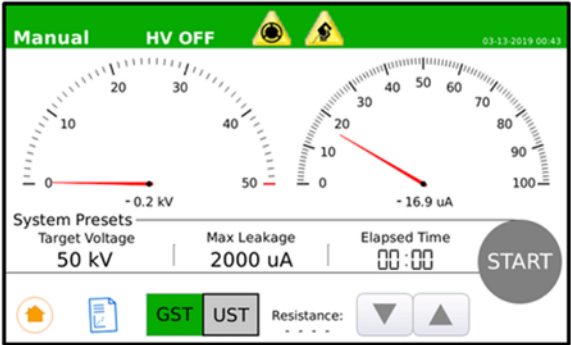
800PL-HD SERIES

Digital DC Hipot Testers – 80kV & 40kV



The 800PL-HD Series Hipot is a modern solution for testing the insulation strength of electrical apparatus. Outfitted with a state-of-the-art digital interface, and extensive safety features, this robust unit ensures simplistic operation, accurate results, and operator safety under all circumstances. The 800PL-HD's heavy-duty design is the perfect solution for tests that require long duty cycle.

The 800PL-HD Series features the most accurate kilovoltmeter readings regardless of load current. Voltage measurements are taken directly at the output of the high voltage transformer, while current is measured at the return leg to ensure the highest accuracy.



FEATURES

- Tests up to 40kV or 80kV** at load current of 10mA
- Portable, rugged design** for field use with wheels
- Multiple measurements** including output voltage, leakage current, insulation resistance (IR), and polarization index (PI)
- 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
- Internal discharge solenoid**
- HIPODirect Mobile App Compatible: View, Share, Upload** test reports to online cloud, and update firmware all through WIFI Direct

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

- | | |
|---|---|
| <input checked="" type="checkbox"/> Motors | <input checked="" type="checkbox"/> Electrical Switchgears |
| <input checked="" type="checkbox"/> Generators | <input checked="" type="checkbox"/> Vacuum Interrupters |
| <input checked="" type="checkbox"/> Bucket Trucks | <input checked="" type="checkbox"/> Aerial Lift Equipment |
| <input checked="" type="checkbox"/> Transformers | <input checked="" type="checkbox"/> Insulated Electric Apparatus & Components |
| <input checked="" type="checkbox"/> Power Cables | |

TECHNICAL SPECIFICATIONS

Model #		840PL-HD	880PL-HD
System Output	Voltage	0.4 – 40kV	0.4 – 80kV
	Current	10mA	
	Polarity	Negative Output, Positive Ground	
Voltage & Current Measurement Accuracy		± 1.5% of Reading ± 0.2% F.S.	
Voltage Resolution		100V	
Current Resolution		0.1µA	
Insulation Resistance Measurement Range		10kΩ – 40GΩ	
IR Accuracy		±1% of scale	
IR Resolution		10kΩ	
Input		90-264VAC, 45-65Hz, 900VA	
Duty Cycle		1 hour ON / 1 hour OFF	
Dimensions (W x D x H)	Net	20in x 14in x 20in (50cm x 35cm x 51 cm)	
	Shipping	24in x 19in x 23in (61cm x 48cm x 58cm)	
Weight	Net	78lbs (36kg)	
	Shipping	91lbs (42kg)	
Safety Features		Emergency Stop Visual Warning Indicators External Interlock Audible Warning Indicator	Interlock Hand-switch (optional) External Warning Lamp (optional) Interlock Foot Pedal (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	

	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 ... 90%
Storage	-20°C ... +70°C	5 ... 95%	-20°C ... +55°C	5 ... 90%

SCOPE OF SUPPLY

25ft HV output cable with clamp
 25ft HV return cable with clamp
 15ft HV ground with clamp
 6ft input power cord
 Manual and calibration certificate

STANDARD OPTIONS

HHDA13-280 – 120kV rated grounding stick
HH-HS-DI – Hand operated interlock switch
HH-FS-DI – Foot operated interlock switch
HH-WARN-DI – Safety Strobe light with magnetic base
EXT-WARN-1 – One-year extended warranty