



HVI - The World's Source For High Voltage Test Equipment



Cable Fault Locators w/TDR

Oil/Fluid Dielectric Testers

Very Low Frequency AC Technology W/TD & PD Diagnostics

**Portable AC Hipots
Higher kVA AC Test Sets**

DC Hipots & Megohmmeters

HV Divider

Aerial Lift Testers

HVI Products Are Designed to Surpass All Others in Features, Specifications, and Ease in Use



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Serving the HV Equipment needs of the Electric Power Industry since 1997

HVI designs and produces high voltage test equipment for the **Proof, Preventive, & Diagnostic Testing** of power cables, aerial lifts, and most electrical apparatus used in the production, transmission, & distribution of electricity. Our major markets include:

- Utilities, Power Producers, Wind and Solar Farms
- Testing Service Companies
- Motor/Transformer Repair Shops
- Electrical Contractors
- Large Industrial/Commercial Installations
- HV Electrical Apparatus Manufacturers



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Known Worldwide For Its Superior Field Test Equipment

THE HVI PRODUCT LINEUP

- Very Low Frequency (VLF) AC Technology
- VLF Withstand, Partial Discharge, & Tan Delta Diagnostics
- DC Hipot/Megohmmeter Combination Instruments
- AC Dielectric Test Equipment
- Aerial Lift Testing: Booms & Buckets
- Oil Dielectric Testing
- Thumpers: Cable Fault Locators, Radar/TDR, Pinpoint Devices
- OEM HV AC & DC Power Supplies
- Ω -Check[®] Concentric Neutral Resistance Tester



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Very Low Frequency (VLF) AC Technology 0.1 Hz. – 0.01Hz.

Two Technologies to Serve all Applications:

VLF Series: Original 1997 Patented, Oil filled HV transformer design with analog controls
Ten Models: 0 - 30 kVac to 200 kVac peak sinusoidal. 0.4 μ F – 50.0 μ F

VLF E Series: Solid state, air insulated, fully programmable with data logging & wireless
Two Models: 0 - 34 kVac & 0 - 65 kVac peak sinusoidal. 0.5 μ F – 10.0 μ F



VLF Series

VLF-E Series

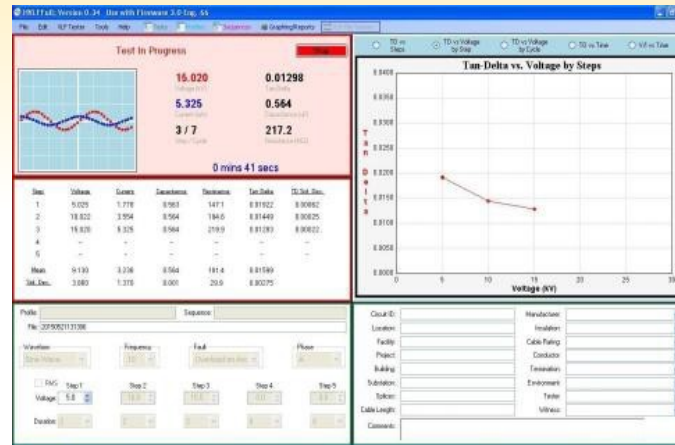
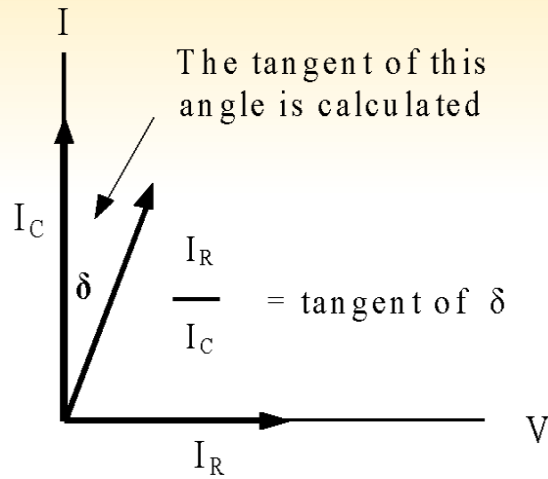


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Very Low Frequency (VLF) HVI Designed Tan Delta

Tangent Delta (Tan δ)/Dissipation Factor/Loss Angle
Measures a Cables Insulation Integrity to Predict Life



65 kV peak



34 kV peak



With the HVI *E-Link Software*

Highly praised, most comprehensive, user friendly with definable fields, XBee wireless for longer distance and more secure connections.



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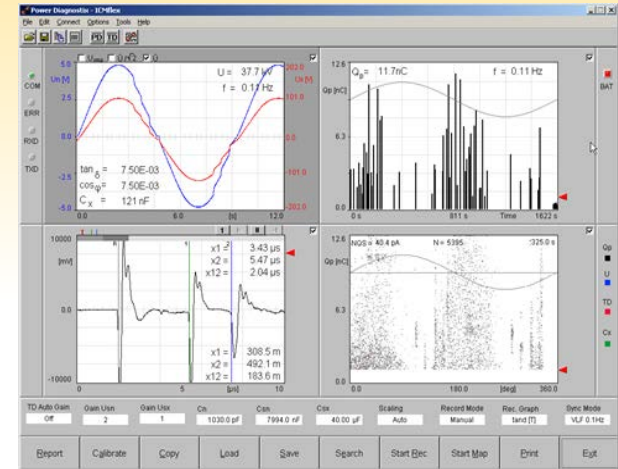


Very Low Frequency (VLF) Diagnostic Testing Options

VLF Partial Discharge & Tan Delta 30 kVac – 200 kVac

HVI offers several packages for using any HVI VLF model for performing **Partial Discharge, PD & TD**, or just **TD** testing on cables, motors & generators, and other apparatus.

Ask HVI about which VLF and others PD/TD products will best serve your needs.



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DC Hipot/Megohmmeters

2 in 1. 20 - 600 kVdc @ 3 - 10 mAdc

Smaller & Lighter – Rugged & Reliable – More Full Featured

10 Models Available from

0 - 20 kVdc to 0 - 600 kVdc
5 mAdc - 10 mAdc



0 – 37.5 kVdc @ 10 mAdc



0 – 100 kVdc @ 10 mAdc



0 – 300 kVdc @ 5 mAdc



0 – 600 kVdc @ 3 mAdc



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PTS Series - DC Hipots

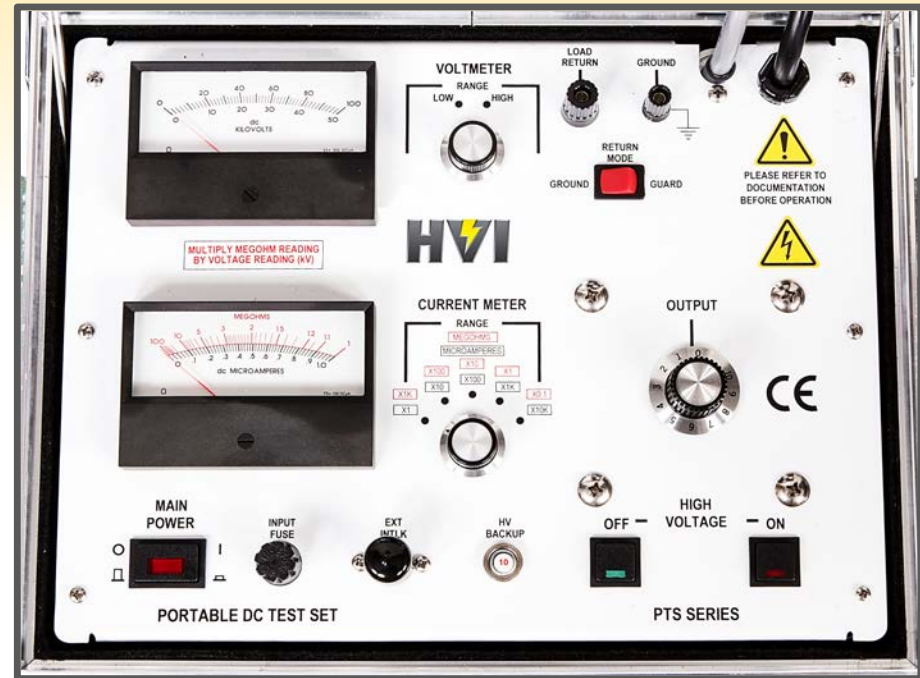
Latest Designs Offer More

The HVI Advantages

- ❑ Built in +/- 1% input line regulator to stabilize input power, permitting more accurate leakage current readings (PTS-37.5 and PTS-75 models)
- ❑ Rugged, transit protected meters. Glass fronts prevent static buildup
- ❑ Meter reads leakage current & megohms
- ❑ Guard/Ground circuit
- ❑ Rugged custom cases with cushion grips
- ❑ Smaller size and weight

❑ **Note: Steel HV Tanks are Grounded**

Common Front Panel



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Cable Fault Locators

Controlled Energy, High Burn Current,
High Joules, Internal TDR Filter



THUMPERS/SURGE GENERATORS

0 – 5/10/20 kV @ 1000 J, 400 mA Burn

0 – 9/18/36 kV @ 1600 J, 280 mA Burn

0 – 9/18/32 kV @ 3200 J, 280 mA Burn

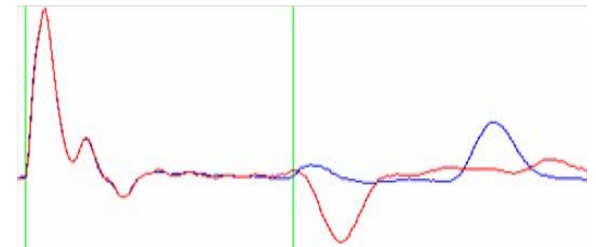
← VLF/THUMPER COMBO MODEL

VLF Hipot: 0 – 33 kVac @ 1 uF, 0.1 Hz. peak

VLF Burner: Maintains arc every ½ cycle

Thumper: 0 – 13 kV @ 760 J every 10 secs

TDR/Radar: Built in TDR Filter



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Cable Test & Fault Locate Van

HVI Makes it Quick & Easy

① Select your cable testing and fault locating tools, cable reels, accessories, etc....

VLF AC Hipot:	Models from 30 kVac – 90 kVac @ 0.1 Hz.
DC Hipot:	37.5 kVdc – 200 kVdc
Thumper:	5/10/20 kV @ 1000J or 9/18/36 kV @ 3200J
TDR/Radar:	Arc Reflection & Current Impulse Locating
Listening Device:	Acoustical and Electro-Magnetic/Ballistic
Cable Reels:	Two - HV and Ground Cables, 100' (30m)
Aluminum Base:	Temporary Install or Mounted Designs

② Select your skid design and mounting method

Dimensions, fork truck portable or permanent mount

③ HVI will deliver your instant cable test package

In 6 – 8 weeks your cable trouble truck package will arrive



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AC Hipots & Dielectric Test Sets

Portable - Transportable - Factory Installed

HVI has developed a comprehensive line of AC Dielectric Test Sets.

Many models are low in PD output and can be ordered with PD and TD/PF measurement accessories.

Available are models from 1 kVA to 250 kVA: portable field test and substation test models, to larger field transportable models to factory installed systems for the OEM, to Resonant Sets for high capacitance loads like motors and generators.

- 1 - 3 kVA Portable AC Hipots**
- 5 - 15 kVA Field Portable AC Testers**
- 3 - 40 kVA AC Field/Factory Dielectric Testers**
- 50 - 250 kVA Parallel Resonance Supplies**



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AC Portable Hipots

Smallest, Lightest, with Higher Power

8 Models Available

0 - 10 kVac to 100 kVac

1 kVA – 3 kVA



0 – 30 kVac @ 1 kVA



0 – 30 & 50 kVac @ 3 kVA



0 – 65 kVac @ 2 kVA



0 – 40 kVac @ 1 kVA, CE



0 – 30 kVac @ 2 kVA, CE



0 – 100kVac @ 3 kVA



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AC Portable Hipots PFT Series

1 – 3 kVA @ 10 – 100 kVac



Analog Versions



Advantages

- 0 - 50 kVac @ 3 kVA with 120V Input ^v
- Only Single Piece Unit ^v
- 18' (6m) Shielded Cable Output ^v
- Guard/Ground Circuit
- Input Inductive Compensation
- Rugged & Reliable
- Anti-Static Glass Front Meters
- Easily Serviced
- Thousands Shipped



Digital Versions



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AC Dielectric Test Systems Higher Power & Higher Voltage

3 kVac – 300 kVac up to 40 kVA

Multiple Control Options

Low PD Output



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Parallel Resonance Technology

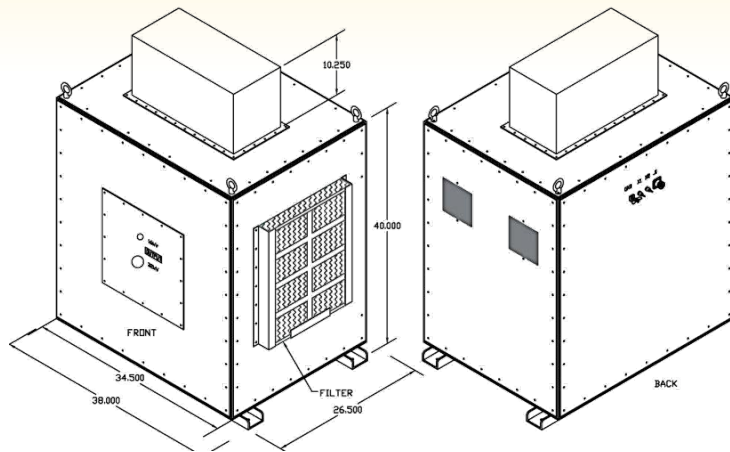
Large Motor/Generator & Apparatus Testing

AC Test High Capacitance Loads with less Power, Current, & Expense

Typical Generator Test Models

0 - 8/16 kVac @ 80 kVA

0 - 16/32 kVac @ 160 kVA



Models available to 100 kVac & 250 kVA

- ✓ AC Withstand
- ✓ Partial Discharge
- ✓ Power Factor
- ✓ Tan Delta



Model: PAR 50-250FC5

0 - 50 kVac @ 5 A, 250 kVA Load



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Aerial Lift Testing - AC & DC

Booms - Liners - Fluids

HVI supplies *hundreds* of various
AC & DC aerial lift testers a year

DC



100 kVdc @
10 mAdc

50 kVac @ 10 kVA
Liner Tester

AC



210/50 kVac @ 7 kVA

AC



120/60 kVac
@ 7 kVA

AC



300 kVac @ 7 kVA

AC



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Oil Dielectric Testers

Semi & Fully Automatic

DTS Series: Semi Automatic
60 kVac & 100 kVac



DTS A Series: Fully Automatic
w/Printer, 60 kVac & 100 kVac



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AC/DC HV Dividers 150 kV & 300 kV



Connect to any DVM



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Ω -Check[®] Concentric Neutral Resistance Tester



How are your Neutrals?

Tests While Cables Energized

Measures Neutral Corrosion

Easy to Set Up

Easy to Operate

Easy to Interpret

Test Substation
Ground Cables



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OEM Products

HV AC & DC Supplies

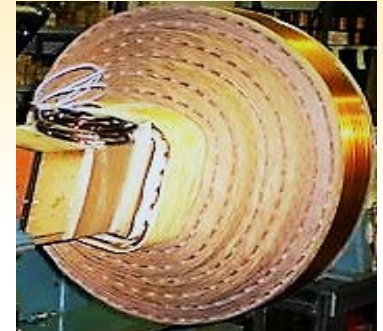
High Voltage AC and DC Tanks
3 kV – 300 kV up to 40 kVA



Bushing Output Steel Tanks < 5pc Partial Discharge



High Voltage
Transformers



HV Isolation
Transformers



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Copake, NY in the Scenic Hudson Valley



100 miles North of New York City
50 miles SE of Albany, NY

30 miles East of the Hudson River
1 mile West of the CT & MA border



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