



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 and Power Producers
- ☐ 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. 0.4 μ F – 10.0 μ F



VLF Series

VLF-E Series



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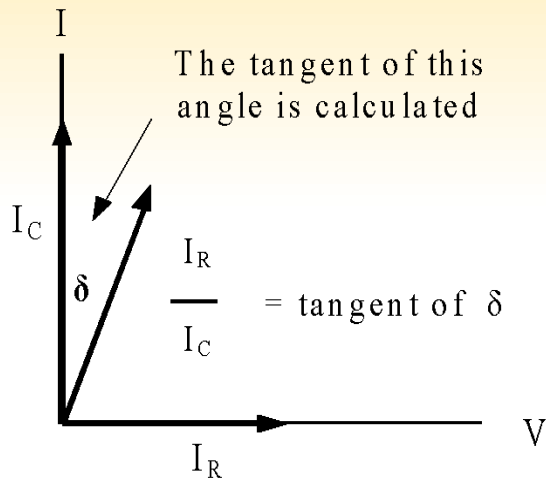
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Very Low Frequency (VLF) HVI Designed Tan Delta

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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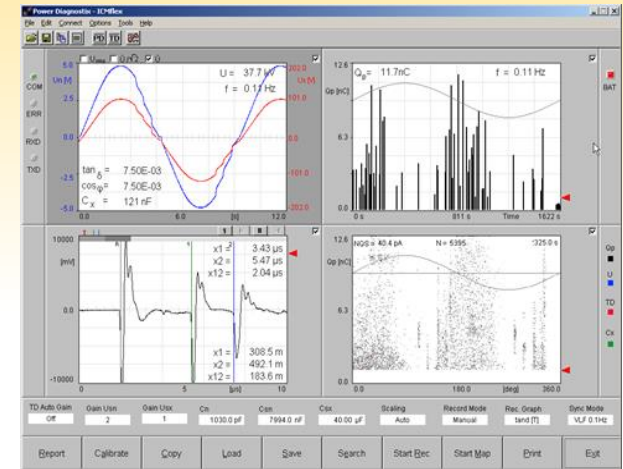


Very Low Frequency (VLF) Diagnostic Testing Options

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

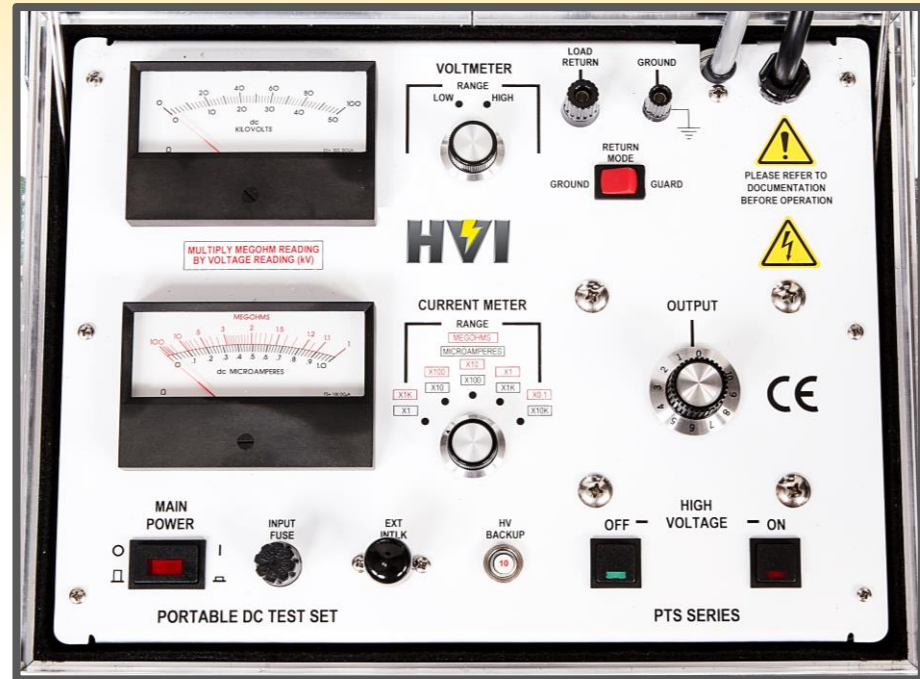
Latest Designs Offer More

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

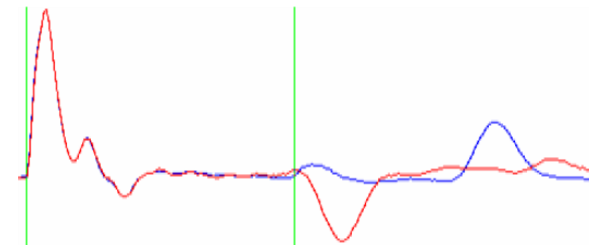
← VLF/THUMPER COMBO MODEL

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

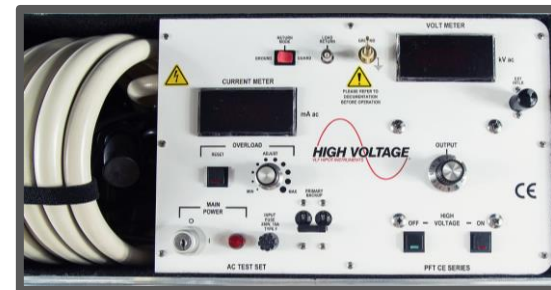


Advantages

- ☐ 0 - 50 kVac @ 3 kVA with 120V Input [✓]
- ☐ Only Single Piece Unit [✓]
- ☐ 18' (6m) Shielded Cable Output [✓]
- ☐ 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

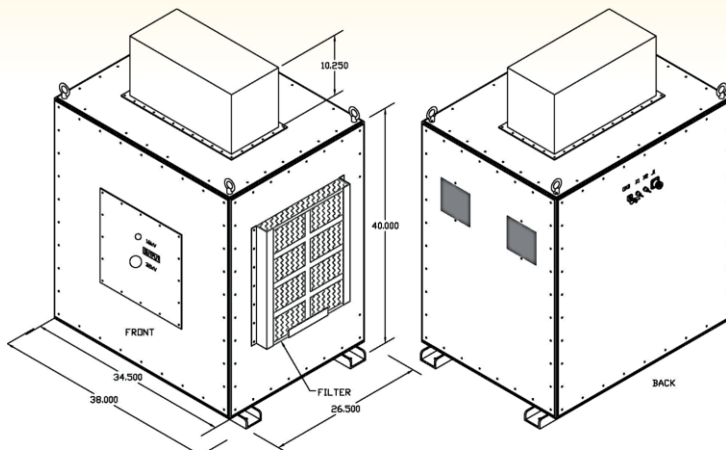
Large Motor/Generator & Apparatus Testing

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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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

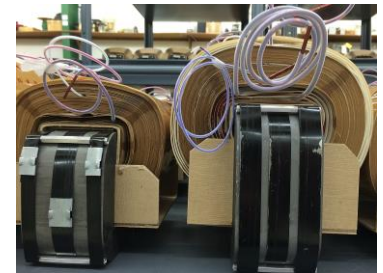
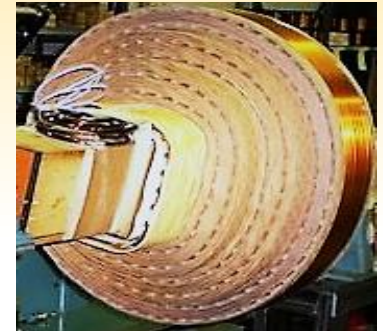
High Voltage AC and DC Tanks
3 kV – 300 kV up to 40 kVA



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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