



Welcome to High Voltage, Inc. The Heart of the Hudson River 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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The World's Source for High Voltage Test Equipment

MADE IN THE USA



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 Superior HV 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
- Parallel Resonant AC for Generator & Motor Testing
- 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 uF – 50.0 uF load rated

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 uF – 10.0 uF



VLF Series

VLF-E Series



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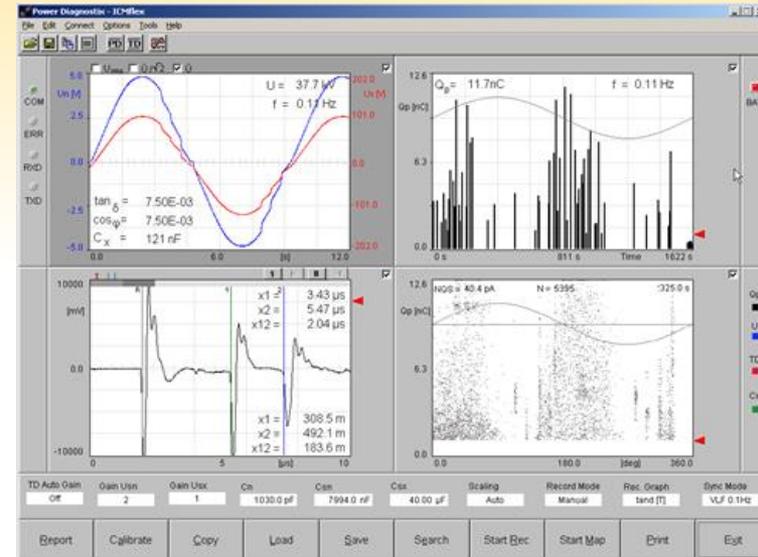
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Very Low Frequency (VLF) Diagnostic Testing Options

Partial Discharge & Tan Delta using any HVI VLF up to 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.



PD test screen shot

Ask HVI about what mix of our VLF and others PD/TD products will best serve your needs.



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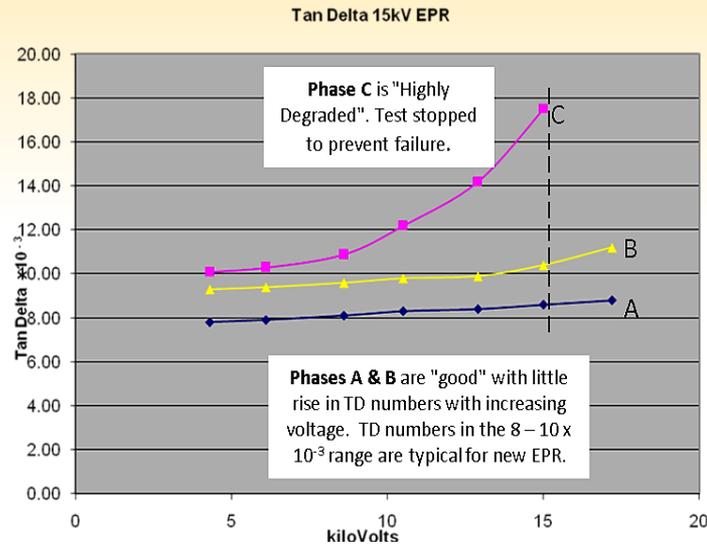
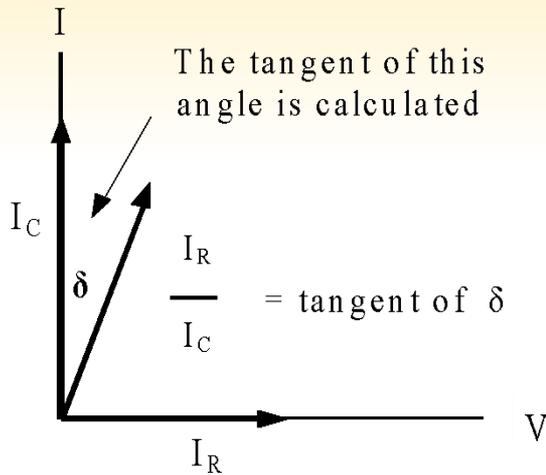
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(VLF) Tan Delta Diagnostic Testing TD Series: Model TD-65E

Tangent Delta (Tan δ)/Dissipation Factor/Loss Angle
Measures the Quality of Your Cable Insulation



Model TD-65E
65 kVac peak



Used with the HVI ***E-Link Software***

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



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0 - 200 kVac @ 0.1 Hz.
Since 2003

Many Mobile
Packaging Options



***HV VLF Cable Tests
Withstand
Tan Delta
Partial Discharge***



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DC Hipot/Megohmmeter Combo

PTS Series: 15 - 600 kVdc @ 3 - 10 mAdc

Smaller & Lighter – Rugged & Reliable – More Full Featured

10 Models Available from

0 - 15 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 @ 5 mAdc



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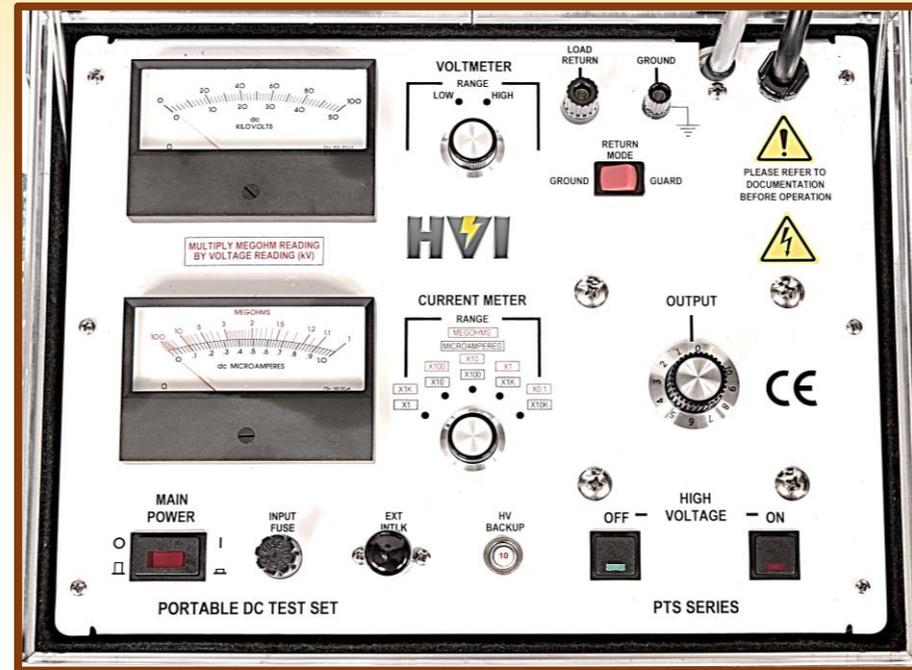


PTS Series - DC Hipots

Features & Controls 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



Common Front Panel



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AC Hipots & Dielectric Test Sets

Field Portable & Factory Test Models

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. HVI has the models needed.

PFT Series: 1 - 3 kVA Portable AC Hipots

FPA Series: 5 - 15 kVA Field Portable AC Testers

HPA Series: 3 - 40 kVA AC Field/Factory Dielectric Testers

PAR Series: 50 - 250 kVA Parallel Resonance Supplies



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AC Dielectric Test Systems Higher Power & Higher Voltage

1 kVac – 300 kVac up to 40 kVA
Multiple Control Options
Low PD Output
5 Model Series Offered



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PFT Series - AC Portable Hipots

10 kVac – 100 kVac @ 1 kVA – 3 kVA

8 Models Available
0 - 10 kVac to 100 kVac
1 kVA – 3 kVA



0 – 30 kVac @ 1 kVA



0 – 30 & 50 kVac @ 3 kVA
Only single piece, shielded
cable output models



0 – 40 kVac @ 1 kVA, CE



0 – 30 kVac @ 2 kVA, CE



0 – 65 kVac @ 2 kVA



0 – 100kVac @ 3 kVA



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PFT Series Advantages

Best Seller PFT-503CM



Advantages

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



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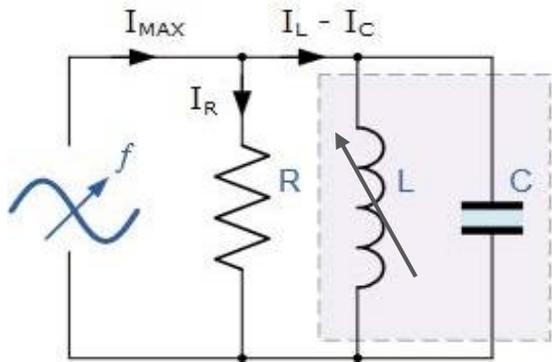
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PAR Series - AC Testing Parallel Resonance Technology

Large Motor & Generator Testing Cable Reels & Short Lengths

Voltage ratings up to 100 kVac
Power ratings up to 250 kVA



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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 @ 10kVA
Liner Tester

AC



O-210/50 kVac @ 7 kVA



AC



120/60 kVac
@ 7 kVA



AC



300 kVac @ 7 kVA



----- ALT Series models -----



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DTS Series - Oil Dielectric Testers

DTS Series: 60 kV & 100 kV
Semi Automatic



DTS - A Series: 60 kV & 100 kV
Fully Automatic w/Printer



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Cable Fault Locators & VLF

Multiple Output Controlled Energy, High Burn Current
High Joule Output, Internal TDR Filter

CDS Series - 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

VT33 - VLF/THUMPER COMBO MODEL

VLF Hipot: 0 – 33 kVac, 1.0 uF @ 0.1 Hz.
Burner: Maintains arc every ½ cycle
Thumper: 0 – 13 kV @ 760 J
TDR ready: Built in TDR/radar filter

World's only VLF/Thumper Model

Ideal for 5 kV – 25 kV systems
VLF Cable Testing and Fault Locating



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DVR Series - AC/DC HV Dividers



Connect to any DVM



300 kV AC/DC



150 kV AC/DC



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Ω -Check[®] Concentric Neutral Resistance Tester



OCK Series

How are your Neutrals?

Tests While Cables Energized
Measures Neutral Corrosion

Easy to Set Up
Easy to Operate
Easy to Interpret



Also Tests Substation Ground Cables



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OEM Products

HV AC/DC Supplies, Isolation Xfmrs, etc.

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



Isolation High Voltage Transformers



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and more

WIND FARM 35KV CABLES ARE IDEAL FOR VLF WITHSTAND TESTING



VLF Acceptance Test per IEEE 400.2
VLF Hipot testing 3 phases at once @ 62 kVac peak for 30 - 60 mins.

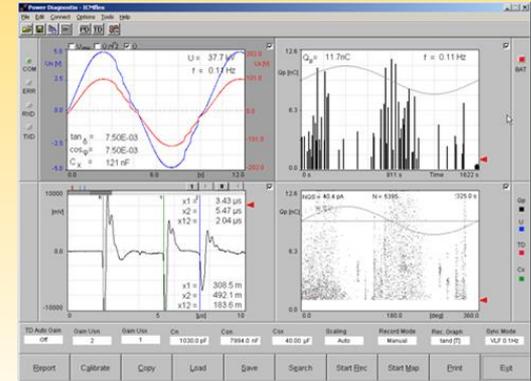
0 - 62 kVac peak VLF

Cable system is new but needs VLF Withstand test to find faulty workmanship on splices and terminations and possible cable installation damage. Tan Delta and Partial Discharge testing are not needed. VLF It!

PFT-401CEF AC Hipot
0 – 40 kVac @ 1 kVA



Diagnostic Cable Testing
0.1 Hz. VLF or 50/60 Hz.

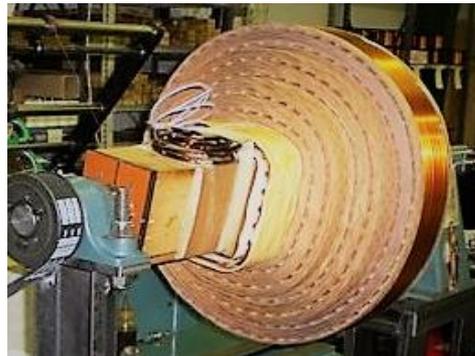


Custom, Instant Van Pkg. for VLF Testing and Fault Locating



SKD Series

HVI Designs, Winds, & Builds Transformers



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Thank You for Your Interest in HVI.



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