

## Very Low Frequency AC Hipots – VLF Series

The **VLF Series** technology offers the world the ability to apply AC high voltage to cables, motors, generators, and other highly capacitive loads to perform **AC Withstand** testing and off-line, elevated voltage **Insulation Diagnostic** testing. At the capacitance levels typically encountered, the capacitive charging current of the load is extremely high when tested with 50/60 Hz, requiring very large, heavy, and expensive test equipment. The same load tested at the VLF frequency of **0.1 Hz, rather than 60 Hz**, would consume nearly **600 times less current**, permitting far smaller, lighter, field portable, and affordable equipment. That's the VLF advantage: 50/60 Hz. vs 0.1 Hz. - 0.01 Hz.

**HVI offers** one of the largest model selections, the most powerful, the highest voltage, and both its original oil immersed, conventional power supply design, and in its new state-of-the-art electronic computer controlled models with wireless communications and complete data report generation. **Two designs offering the best of both worlds:** the original with decades of proven ability, and the new solid state design with all of its benefits. The VLF design of High Voltage, Inc. is protected under **US Patent # 6169406**.

**Since 1998**, HVI has been the world's leading source for VLF test equipment, with over **2000 units shipped to over 80 countries**. Like all HVI products, our VLF is designed, manufactured, and fully supported from our NY factory and by our 100+ well trained representatives and dozens of certified repair and calibration locations worldwide.

### Various Models



**Models & Specifications**  $\mu$ F ratings shown are at 0.1 Hz. - ratings are 5x greater @ 0.02 Hz.

#### VLF Series – original oil immersed, transformer power supply design, analog controls

<b>VLF-30CM</b> 30 kVac @ 0.4 $\mu$ F	<b>VLF-4022CM</b> 44 kVac @ 1.1 $\mu$ F	<b>VLF-50CMF</b> 50 kVac @ 5.0 $\mu$ F	<b>VLF-6022CM</b> 62 kVac @ 1.1 $\mu$ F	<b>VLF-65CMF</b> 65 kVac @ 2.2 $\mu$ F
<b>VLF-90CMF</b> 90 kVac @ 0.75 $\mu$ F	<b>VLF-12011CMF</b> 120 kVac @ 1.1 $\mu$ F	<b>VLF-200CMF</b> 200 kVac @ 0.75 $\mu$ F	<b>VLF/Thumper Combo - VT33</b> 33 kVac @ 1.0 $\mu$ F, 13 kVdc @ 760 J	

#### VLF “E” Series - solid state, programmable, data logging, and wireless models

<b>VLF-34E</b> 34 kVac @ 0.5 $\mu$ F	<b>VLF-65E</b> 65 kVac @ 1.0 $\mu$ F
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[Click here to see the VLF & TD E Series promo announcement.](#)

### Product Brochures

VLF Brochure - 8 pgs.  
VT33 VLF/Thumper  
Data Logger

### Technical Notes

VLF FAQ  
How to Select A VLF  
Test Voltages kV/mil  
Test Distances/ $\mu$ F rating  
VLF Appl. Questionnaire

### Applications Notes

Motor & Generator Testing  
Wind Farm Cable Testing  
Test Voltages & Duration  
MV Cable VLF, TD, PD  
HV Cable VLF, TD, PD

### Presentations - VLF

EIC Paper @ PowerPoint  
IEEE/DEIS Paper & PP  
VLF, TD, PD PowerPoint  
Inducor Argentina Test  
Contractor PowerPoint