



# VLF-65E 65 kV VLF Tester

## Very Low Frequency AC Technology

The **VLF-65E Test Set** is the latest addition to the new generation of **VLF AC Hipots** from HVI that use a dry-type, air cooled, solid state design with microprocessor control. Its test programming, numerous output functions, wireless communications, and data retrieval are intuitive and easy to learn, as well as its PC Application software. It is portable, affordable, and built for the rigors of field use, like all HVI products. Its **0 - 65 kVac** output voltage meets world standards for Acceptance testing up to 35 kV class cable and its **sine wave output** is suitable for using optional **Tan Delta and Partial Discharge** measurement systems, like the HVI **TD-65E Tan Delta System**. The VLF-65E offers everything needed for fully testing cables rated up to 35 kV. The **HVI VLF-34E and TD-34E** for testing up to 25 kV cables are shown below.

HVI offers the broadest VLF line with 12 models available, with higher power and voltage, electronic and electro-mechanical designs, a VLF/Thumper combo, and Tan Delta, all with superior factory support and field service. HVI produces products for testing substation apparatus, motors/generators, transformers, aerial lifts, cables, and cable fault locating. HVI has delivered its products to over 100 countries and has service locations worldwide. Over 2000 VLF units alone have been delivered to over 80 countries.

### VLF & DC OUTPUT | SHEATH TESTING | CABLE BURNING

#### Specifications & Features

Input:	100 Vac – 265 Vac, 50 Hz/60 Hz, 20A max
Output:	VLF Sinewave: 0 - 65 kVac peak/46 kVac rms @ 26 mA VLF Square wave: 0 - 65 kVac peak @ 45 mA DC: 0 - ± 65 kV @ 45 mA Sheath Test – User Programmable
Duty:	Continuous
Frequency:	0.1 Hz to 0.01 Hz in steps of 0.01 Hz
Load Rating:	1.0 µF @ 0.10 Hz @ 65 kV 2.0 µF @ 0.05 Hz @ 65 kV 5.0 µF @ 0.02 Hz @ 65 kV 10.0 µF @ 0.01 Hz @ 65 kV µF rating increases at lower voltages Ex: 1.4 µF @ 0.1 Hz @ 47 kV peak
Metering:	Voltage kV peak or rms, +/-1% accuracy Current mA peak or rms, +/-1% accuracy
Calculated:	Capacitance, Resistance, Tan Delta, Flashover voltage, Time to Failure
Fault Response:	Smart Fault Management – Fault “Burning” or Shutdown on Fault
Reports/Data:	Up to 50 test records can be stored in non-volatile memory or removable USB memory stick
PC Interface:	USB and XBee wireless
PC Software:	Remote Control & Test Data Reporting
Size/Weight:	22” w x 14 1/2” d x 26” h, 150 lbs 559 mm x 369 mm x 660 mm, 68 kg
Output Leads:	HV: 20’/6m flexible x-ray, Ground #2 - 20’/6m # 10 test leads, ground hook, line cord, etc.



## Ideal for Wind Farms

VLF Withstand  
VLF Tan Delta  
VLF Partial Discharge

**VLF-65E has everything needed:** Programmable test sequences, automatic & manual control, USB port for capturing data for export, wireless computer interface for remote control operation and data upload, and onscreen Tan Delta data display with optional TD-65E.

**Meets:** IEEE 400.2, IEEE 400, IEC 60060-3, CENELEC HD 620/621, VDE DIN 0276-620/621. IEEE 433 for motors/gens.

#### VLF-34E & Tan Delta TD-34E



A matched pair for  
VLF Withstand &  
VLF Tan Delta testing

VLF: 0-34 kV pk. @ 0.5 uF – 5.0 uF  
TD: 0-34 kV pk. Tan Delta Diagnostics



HVI: The World's VLF Source  
All HVI Products are Made in the USA

ISO 9001:2008



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High Voltage, Inc. designs and manufactures high voltage test equipment for utility and industrial applications. Also available are Very Low Frequency (VLF) high voltage AC test sets, oil dielectric test sets, AC and DC instrumented test sets, cable fault locators and other products.