

# Very Low Frequency 0.1Hz. AC Hipots

## VLF Series & VLF E Series

### AC Withstand & Diagnostic Test High uF Loads

**VLF Technology – Why?** The lower the frequency of an AC voltage applied to a capacitive load, like a power cable or generator, the lower the AC charging current required. To field test high uF loads with AC voltage requires the use of VLF AC technology instead of conventional 50/60 Hz. supplies.  $Amps = 2\mu fCV$ .  $60\text{ Hz}:0.1\text{ Hz.} = 600:1 = 600x\text{ less current.}$

The original **HVI VLF Series**, rated from **30 kVac – 200 kVac**, was developed and released in 1998 and quickly revolutionized cable testing worldwide. The HVI VLF line was the first portable and affordable 0.1 Hz. design and was constructed like conventional hipots the world was familiar with: oil filled HV tanks and analog designed controls. Economical, easy to use, rugged, reliable, and portable, this design quickly captured the bulk of the world market with thousands sold to over 100 countries. Many models are available to test medium and high voltage power cables up to 200 kVac. The VLF Series is manual in control and operation making it easy to use but is limited in its data logging capabilities.

The **HVI VLF-E Series** is the latest generation of solid state power supply designed VLF models, rated from **34 kVac - 65 kVac** and offer complete programmable and automatic operation, wireless control and extensive data logging, and the leading user interface and software package available, the HVI **E- Link Software**, far more comprehensive and easier to use than others.

In addition to using VLF AC hipots for overvoltage AC Withstand Testing, **VLF Tan Delta** and **VLF Partial Discharge** for diagnostic insulation testing are both available from HVI. Refer to the Cable Diagnostics Testing section for more detail.

**VLF Series    VLF E Series    VLF E Link**

VLF Series photo

VLF E Series photo

E Link Software photo