



# VLF Cable Testing for cables rated to 115kV

## VLF-140CMF

### Features and Benefits

The High Voltage, Inc. **VLF-140CMF** was designed for withstand and diagnostic testing of cable systems up to 115kV. The VLF-140CMF is a higher power alternative to our VLF-12011CMF, capable of testing up to 70,000 ft of cable. It can be used with optional Tan Delta or Partial Discharge equipment for cable diagnostics. HVI introduced Sinewave output VLF technology in 1997 and the VLF-140CMF has been manufactured since 2012. The multi-piece design allows many transportation configurations, cargo trailer, flatbed, custom designs.



VLF-140CMF

### Specifications

<b>Input</b>	230V, 80A peak, 50/60Hz (Single phase)
<b>Output</b>	Sinusoidal 0-140kVac peak, 100mA, Bushing Output
<b>Load capacitance</b>	1.5 $\mu$ F @ 0.1 Hz, up to 7.5 microfarad @ 0.02 Hz
<b>Duty</b>	Continuous
<b>Metering and control</b>	Voltmeter: 0-140kVac peak, Analog (3.5 in. display) Current meter: 0-200 mA ac, Analog (3.5 in. display) Capacitance meter: 0-6microfarads On/Off Controls with zero start interlock Fixed Primary overload, 120% of primary rating Three Fixed Operating Frequencies: 0.1/.05/.02 Hz Burn/Hipot Operation Mode Switch Digital Dwell Timer Automatic return to zero External interlock
<b>Sizes</b>	Control: 24"w x 30"d x 62"h (610mm x 762mm x 1575mm) HV Tank: 60"w x 37"d x 62"h (1524mmx 940mmx 1575mm)
<b>Weights</b>	Control: Approx. 750 lbs. (341 kg) HV Tank: Approx. 2560 lbs. (1161kg)



Standard Control Package



### Tan Delta & Partial Discharge Test

$U_{RMS}$ (kV)	$U_{O RMS}$ (kV)	$U_{O PEAK}$ (kV)	$1/2 \cdot U_{O PEAK}$ (kV)	$1 \cdot U_{O PEAK}$ (kV)	$1.5 \cdot U_{O PEAK}$ (kV)	Max. k factor tested with 200 kV peak
69	40	56.5	28.2	56.5	84.7	3.5
110	64	90.5	45.2	90.5	135.7	2.2
132	76	107.5	53.7	107.5	161.22	1.8
150	87	123	61.5	123	184.5	1.6



High Voltage Section

