



VLF Cable Testing for transmission cables

VLF-200CMF

Features and Benefits

The High Voltage, Inc. VLF-200CMF was designed for withstand and diagnostic testing of cable systems up to 150kV. Smaller and more affordable than a power frequency AC resonant test set, the VLF-200CMF is capable of testing approximately 60,000 feet (18km) of cable and can be used with optional Tan Delta or Partial Discharge equipment. HVI introduced Sinewave output VLF technology in 1997 and the VLF-200CMF has been manufactured since 2004. The multi-piece design allows many transportation configurations, cargo trailer, flatbed, custom designs. HVI also offers the VLF-200CMF for rent installed in our custom roll top pod. Contact HVI for more information.



VLF-200CMF

Specifications

Input	230V, 80A peak, 50/60Hz (Single phase)
Output	Sinusoidal 0-200kVac peak, 100mA Bushing Output
Load capacitance	.75 μ F @ 0.1 Hz, up to 3.75 microfarad @ 0.02 Hz
Duty	Continuous
Metering and control	Voltmeter: 0-200kVac 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
Sizes	Control: 24" w x 30" d x 62" h (610mm x 762mm x 1575mm) HV Tank: 60" w x 37" d x 87" h (1514mm x 958mm x 2210mm)
Weights	Control: Approx. 750 lbs. (341 kg) HV Tank: Approx. 3300 lbs. (1497kg)



Optional remote control



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

