



# VLF Cable Testing for cables rated to 115kV

## VLF-12011CMF

### Features and Benefits

The High Voltage, Inc. VLF-12011CMF was designed for withstand testing of 69kV cable systems per IEEE 400.2-2013 and insulation testing of large rotating machines per IEEE 433-2009. With output frequency options of 0.1Hz, 0.05Hz, 0.02Hz, and 0.01Hz the VLF-12011CMF can test cables up to 50,000 feet long. When coupled with optional equipment the VLF-12011CMF is the voltage source for diagnostic tests such as Tan Delta and Partial Discharge for 115kV class cables. HVI introduced Sinewave output VLF technology in 1997 and the VLF-12011CMF has been manufactured since 1999. The VLF-12011CMF components are mounted on a push cart for portability but can be configured as individual pieces for vehicle mounting. HVI includes zero start interlock circuit and external interlock provisions on all equipment.



VLF-12011CMF

### Specifications

<b>Input</b>	230 V, 50/60 Hz, 30A peak, 25A average
<b>Output</b>	Sinusoidal, 0-120 kVac peak, 0.1/0.05/0.02/0.01 Hz frequency Continuous duty. 100 ft. shielded x-ray output cable with dual cable reels
<b>Load</b>	.55 $\mu$ F (approx 5,000 ft of cable) @ 0.1 Hz 1.1 $\mu$ F (approx 10,000 ft of cable) @ 0.05 Hz 2.75 $\mu$ F (approx 25,000 ft of cable) @ 0.02 Hz 5.5 $\mu$ F (approx 50,000 ft of cable) @ 0.01 Hz
<b>Metering scales</b>	Voltmeter: 0-120 kVac peak Current Meter: 0 – 100 mA peak Load capacitance: 0–6 microfarads
<b>Sizes</b>	Control: 17" w x 11" d x 9.5" h, 432mm w x 280mm d x 241mm h Regulator: 20" w x 14" d x 27" h, 508mm w x 356mm d x 686mm h HV Tank: 26" w x 20" d x 22" h, 660mm w x 508mm d x 559mm h Overall: 30" w x 60" d x 51" h, 762mm w x 1524mm d x 1295mm h
<b>Weights</b>	Control: 20lbs. (9kg) Regulator: 160lbs, (73kg) HV Tank: 390lbs, (177kg) Overall: 853 lbs, (388 kg)



Controls are easy and reliable.

Cable Rating	Installation	Acceptance	Maintenance
phase to phase	phase to ground	phase to ground	phase to ground
kVrms	kVrms (kVpk)	kVrms (kVpk)	kVrms (kVpk)
35	39 (55)	44 (62)	33 (47)
46	51 (72)	57 (81)	43 (61)
69	75 (106)	84 (119)	63 (89)

