VERY LOW FREQUENCY AC HIPOT

VLF Cable Testing for cables rated to 69 kV

VLF-90CMF

Features and Benefits

The High Voltage, Inc. VLF-90CMF is one of our popular very low frequency ac hipots designed to perform withstand testing per IEEE400.2-2013. With output frequency options of 0.1Hz, 0.05Hz, and 0.02Hz the VLF-90CMF can test cables up to 25,000 feet long. When coupled with optional equipment the VLF-90CMF is the voltage source for diagnostic tests such as Tan Delta and Partial Discharge. HVI introduced Sinewave output VLF technology in 1997 and the VLF-90CMF has been manufactured since 2003. Reliable electro mechanical design reduces size and weight making the VLF-90CMF an excellent choice for 46kV and 69kV voltage class cable testing. HVI includes zero start interlock circuit and external interlock provisions on all equipment. Portability can be enhanced with the addition of an optional Handcart.

VLF-90CMF
(with optional Handcart)

Specifications

Input	230 V, 50/60 Hz, 20A peak, 15A average
Output	Sinusoidal, 0-90 kVac peak, 0.1/0.05/0.02 Hz frequency Continuous duty.
Load	.55 μF (approx 5,000 ft of cable) @ 0.1 Hz 1.1 μF (approx 10,000 ft of cable) @ 0.05 Hz 2.75 μF (approx 25,000 ft of cable) @ 0.02 Hz
Metering scales	Voltmeter: 0-100 kVAC peak Current Meter: 0 – 100 mA peak Load capacitance: 0–6 microfarads
Sizes	Control: 26” w x 13” d x 16” h, 660 mm w x 330 mm d x 406 mm h HV Tank: 15” w x 21” d x 29” h, 381 mm w x 533 mm d x 686 mm h
Weights	Control: 75 lbs. (34 kg) HV Tank: 293 lbs. (133 kg
Included accessories	20ft Shielded output cable, 20ft ground and test leads, 10ft Umbilical, 10ft line cord, ground stick with 20ft lead

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)
5	9 (13)	10 (14)	7 (10)
8	11 (16)	13 (18)	10 (14)
15	19 (27)	21 (30)	16 (22)
25	29 (41)	32 (45)	24 (34)
35	39 (55)	44 (62)	33 (47)
46	51 (72)	57 (81)	43 (61)
69	75 (106)	84 (119)	63 (89)

Optional PD &TD equipment

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