



VLF-65CMF

Features and Benefits

The High Voltage, Inc. VLF-65CMF is a higher power design for withstand testing of 35kV cable systems per IEEE 400.2-2013. With output frequency options of 0.1Hz, 0.05Hz, 0.02Hz, and 0.01Hz the VLF-65CMF can test approximately 40 miles of cable making it the right choice for long cable spans such as feeders, submarine cables, and windfarm applications. When coupled with optional equipment the VLF-65CMF 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-65CMF has been manufactured since 2001. The VLF-65CMF components are mounted on a push cart for portability but can be configured as individual pieces for vehicle mounting.



Model VLF-65CMF

Specifications



Input	230 volts, 50/60 Hz, 30 A peak, 25 A average
Output	Sinusoidal, 0-65kVac peak, 0.1/0.05/0.02/0.01 Hz frequency Continuous duty. 100 ft. shielded x-ray output cable with dual cable reels
Load	2.2 μ F (approx. 4mi. of cable) @ 0.1 Hz 4.4 μ F (approx. 8mi. of cable) @ 0.05 Hz 11.0 μ F (approx. 20mi. of cable) @ 0.02 Hz 22.0 μ F (approx. 40mi. of cable) @ 0.01 Hz
Metering Scales	Voltmeter: 0-65 kVac peak Current Meter: 0-200 mA peak Load capacitance: 0-6 microfarads 1 x 10 ranges
Sizes	Control: 17" w x 11" d x 9.5" h, 432 mm w x 280 mm d x 241 mm h Regulator: 20" w x 14" d x 27" h, 508 mm w x 356 mm d x 686 mm h HV Tank: 15" w x 18" d x 22" h, 381 mm w x 457 mm d x 559 mm h Overall: 30" w x 60" d x 51" h, 762mm w x 1524mm d x 1295mm h
Weights	Control: 20 lbs., (9 kg) Regulator: 160 lbs., (73 kg) HV Tank: 215 lbs., (98 kg) Overall: 680 lbs., (309 kg)



Controls are easy and reliable.

IEEE 400.2-2013 Test Voltages for Sinusoidal VLF						
Cable Rating (phase to phase)	Installation (phase to grd)		Acceptance (phase to grd)		Maintenance (phase to grd)	
	[kV rms]	[kV peak]	[kV rms]	[kV peak]	[kV rms]	[kV peak]
5	9	13	10	14	7	10
8	11	16	13	18	10	14
15	19	27	21	30	16	22
20	24	34	26	37	20	28
25	29	41	32	45	24	34
28	32	45	36	51	27	38
30	34	48	38	54	29	41
35	39	55	44	62	33	47

Test duration should be 30 – 60 minutes at the above voltages.



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