VERY LOW FREQUENCY AC HIPOT

VLF Cable testing for cables rated to 35kV

VLF-6022CM(F)

Features and Benefits

The High Voltage, Inc. VLF-6022CM(F) with its 62 kVac peak output, is suitable for all testing of 35 kV cable per IEEE 400.2-2013. Its high load capacity enables it to test up to approximately 15 miles of cable (at .02 Hz), depending on type. Introduced in 1997, the VLF-6022CM(F) is our simple and reliable electromechanical unit. For advanced features such as remote operation, programming, professional reports and solid state menu driven technology see our E-Series VLF-65E.

Model VLF-6022CM(F)
Two-piece easy portability

Specifications

Input	120 volts, 60 Hz, 10 A peak, 5 A average or 230 volts, 50/60 Hz, 6 A peak, 2.5 A average (F suffix)
Output	0-62 kVac peak, 0.1/0.05/0.02 Hz, Sinusoidal
Duty	Continuous
Load Rating	1.1µF @ 0.10 Hz: 1 – 2 miles (1.6 - 3.2km) of 15 kV cable 1.5 – 3 miles (2.4 – 4.8km) of 25 kV cable 2 – 4.2 miles (3.2 – 6.8km) of 35kV cable 2.2µF @ 0.05 Hz: twice distances shown for 0.1Hz. 5.5µF @ 0.02 Hz: five times the distances shown for 0.1Hz
Metering	Voltmeter: 0-62 kVac peak Charging Current meter: 0 – 100 mA peak Load capacitance meter: 0 – 6 microfarads Adjustable test alarm timer
Cable Lengths	Shielded EPR output cable - 20 ft. (6 m) Interconnect cable - 10 ft. (3 m)
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 10.25” d x 21.5” h 381 mm w x 267 mm d x 546 mm h
Weights	Control: 75 lbs., (34 kg) HV Tank: 120 lbs. (54 kg) Optional Handcart available

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.

E-Series VLF-65E