



VLF Cable testing for cables rated to 30kV

VLF-4022CM(F)

Features and Benefits

The High Voltage, Inc. VLF-4022CM(F) with its 44 kVac peak output, is suitable for all testing of 25 kV cable and maintenance testing on 30 kV cable. Its high load capacity enables it to test up to approximately 10 miles of cable (at .02 Hz), depending on type. Introduced in 1997, the VLF-4022CM(F) meets IEEE 400.2-2013 and other international standards.

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 – 44 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 2.2µF @ 0.05 Hz: twice distances shown for 0.1Hz 5.5µF @ 0.02 Hz: five times distances shown for 0.1Hz
Metering	Voltmeter: Center zero -44 – 0 – +44 kVac peak Charging current meter: 0 – 100 mA peak Load capacitance meter: 0 – 6 microfarads
Cable Lengths	Shielded RG/8U output cable - 20 ft. (6 m) Interconnect cable - 10 ft. (3 m)
Sizes	Control: 22" w x 11.25" d x 15.25" h 559 mm w x 286 mm d x 387 mm h HV Tank: 14.5" w x 10.5" d x 19" h 368 mm w x 267 mm d x 483 mm h
Weights	Control: 50 lbs. (23 kg) HV Tank: 72 lbs. (33 kg) Optional Handcart available



Model VLF-4022CM(F)
Two-piece easy portability



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

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