



VERY LOW FREQUENCY AC HIPOT

VLF Cable testing for cables rated to 35kV

VLF-65E

Features and Benefits

The High Voltage, Inc. VLF-65E is the latest generation of VLF AC hipots using an air-cooled, solid state design with microprocessor control. High end features include user programmable test sequences, wireless communications, data retrieval and manual or automatic load based output frequency selection. The supplied E-Link PC software offers wireless remote operation, custom report generation, and test data export to .csv. Wireless communication between the VLF-65E, optional TD-65E Tan Delta Bridge, and/or user supplied PC is achieved via the XBee protocol which offers more reliability than Bluetooth. Introduced in 2014, the VLF-65E along with the TD-65E is the choice for 5 to 35kV cable acceptance, withstand, and diagnostic testing per IEEE 400.2-2013.

Specifications



Input	100 Vac – 265 Vac, 50 Hz/60 Hz, 20 A max
Output	VLF sinewave: 0 – 65 kV AC peak/46 kV AC RMS @ 28 mA RMS VLF square wave: 0 – 65 kV AC peak @ 40 mA DC: 0 – 65 kV Pos/Neg @ 40 mA Sheath test – User programmable
Duty	Continuous
Load Rating	1.0µF @ 0.10 Hz @ 65 kV, 2.0µF @ 0.05 Hz @ 65 kV, 10.0µF @ 0.01 Hz @ 65 kV µF rating increases at lower voltages, Ex: 1.4 µF @ 0.1 Hz @ 47 kV peak
Frequency	0.1 Hz to 0.01Hz in 0.01Hz increments
Metering	Color LCD display Voltage KV peak or RMS +/- 1% Accuracy Current mA peak or RMS +/- 1% Accuracy Calculated: Capacitance, Resistance, Flashover Voltage, and Time to Failure
Fault Response	Fault on Arc and Burn on Arc
Memory	Up to 50 test records in non-volatile memory and External USB memory stick
PC Interface	External USB port and XBee 802.15.4 (Not Bluetooth) Range ~30 m
PC Software	E-Link remote control and reporting software
Cable Lengths	20'6 m flexible x-ray, 20'6 m ground #2, 20'6 m test leads #10, ground hook, line cord
Size	22" w x 14.5" d x 26" h, 559 x 369 x 660 mm
Weights	150 lb, 68 kg



Model VLF-65E



Intuitive menu driven user interface.

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.



TD-34E VLF-34E VLF-65E TD-65E