



# 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.

### Specifications

|                      |                                                                                                                                                                                                                                                                        |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Input</b>         | 120 volts, 60 Hz, 10 A peak, 5 A average<br>or 230 volts, 50/60 Hz, 6 A peak, 2.5 A average (F suffix)                                                                                                                                                                 |
| <b>Output</b>        | 0-62 kVac peak, 0.1/0.05/0.02 Hz, Sinusoidal                                                                                                                                                                                                                           |
| <b>Duty</b>          | Continuous                                                                                                                                                                                                                                                             |
| <b>Load Rating</b>   | 1.1µF @ 0.10 Hz: 1 – 2 miles (1.6 - 3.2km) of 15 kV cable<br>1.5 – 3 miles (2.4 – 4.8km) of 25 kV cable<br>2 – 4.2 miles (3.2 – 6.8km) of 35kV cable<br>2.2µF @ 0.05 Hz: twice distances shown for 0.1Hz.<br>5.5µF @ 0.02 Hz: five times the distances shown for 0.1Hz |
| <b>Metering</b>      | Voltmeter: 0-62 kVac peak<br>Charging Current meter: 0 – 100 mA peak<br>Load capacitance meter: 0 – 6 microfarads<br>Adjustable test alarm timer                                                                                                                       |
| <b>Cable Lengths</b> | Shielded EPR output cable - 20 ft. (6 m)<br>Interconnect cable - 10 ft. (3 m)                                                                                                                                                                                          |
| <b>Sizes</b>         | Control: 26" w x 13" d x 16" h,<br>660 mm w x 330 mm d x 406 mm h,<br>HV Tank: 15" w x 10.25" d x 21.5" h<br>381 mm w x 267 mm d x 546 mm h                                                                                                                            |
| <b>Weights</b>       | Control: 75 lbs., (34 kg)<br>HV Tank: 120 lbs. (54 kg)<br>Optional Handcart available                                                                                                                                                                                  |



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



Controls are easy and reliable.



E-Series VLF-65E

### IEEE 400.2-2013 Test Voltages for Sinusoidal VLF

| Cable Rating<br>(phase to phase) | Installation<br>(phase to grd) |           | Acceptance<br>(phase to grd) |           | Maintenance<br>(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.



ISO 9001 2008

The World's Source for High Voltage Test Equipment

MADE IN THE USA

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