80kV VLF AC Hipot Test Set

Model #: VLF-80

80kV VLF AC Hipot Test Set VLF-80 is capable of outputting a maximum of 80kV AC voltage at 0.1Hz, 0.05Hz, 0.02Hz or 0.01Hz to test power cables in compliance with the standard IEEE 400.2-2013, IEEE 400.2-2024, IEC 60502-2, and DL/T 849.4-2024.

Descriptions

VLF stands for Very Low Frequency. VLF Hipot Test Set is an AC output high voltage instrument. VLF AC Hipot Test Set provides sinusoidal AC voltage but at 0.1Hz-0.01Hz, compared to the 50/60 Hz output of conventional AC test set. It is still an AC voltage with sinusoidal polarity reversals every half cycle.

VLF AC Hipot Test Set is used to field test high capacitance loads like cable and rotating machinery(motor/generator). The lower the frequency of an AC source, the lower the current and power required to apply a voltage to a capacitive load.

The principal use of VLF AC Hipot Test Set is testing medium and high voltage shielded power cables. It is especially valuable for verifying a cable after installation or repair. Use the VLF to cause defects to fail during the test, find the fault, make the repair or replacement, and be left with a better cable.

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Main Features

- ◆ Rugged and reliable design
- ◆ 7-inch touch screen for operation and display
- ◆ Perform HV withstand test for cable & motor/generator
- ◆ Maximum output AC voltage 80kV(peak)
- ◆ Output frequency options 0.1Hz, 0.05Hz, 0.02Hz or 0.01Hz
- ◆ High load capacity 5.5μF at 0.01Hz
- ◆ Automatic result interpretation as per IEEE 400.2-2013

◆ Easy field operation with no need for external PC

◆ Test results can be saved into tester

◆ Test results can be printed via built-in thermal printer

Technical Data

1)Output
AC Voltage: 0-80kV/30mA(peak)
Frequency: 0.1/0.05/0.02/0.01 Hz sinusoidal
2)Duty Cycle: continuous
3)Load Rating
≤0.5μF@0.1Hz
≤1.1μF@0.05Hz
≤2.2μF@0.02Hz
≤5.5μF@0.01Hz
4)Measurement Accuracy: ±3% of reading
5)Voltage Positive and Negative Peak Error: ≤3%
6)Weight
Controller: 4kg
Booster(HV Tank): 50kg
7)Power Supply: AC220V/AC230V, 50/60Hz or AC120V, 60Hz
8)Environmental Conditions
Operating Temperature: -10℃…+50℃
Storage Temperature: -20℃…+70℃
Humidity: ≤ 85%RH