
30kV VLF AC Hipot Test Set

Model #: VLF-30

30kV VLF AC Hipot Test Set VLF-30 is small and light AC hipot test instrument at frequency 0.1Hz, 0.05Hz, 0.02Hz or 0.01Hz. It is durable and perfect for AC withstand tests on shielded power cables in accordance 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.

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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 30kV(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 test set
- ◆ Test results can be printed via built-in thermal printer

Technical Data

1)Output

AC Voltage: 0-30kV/30mA(peak)

Frequency: 0.1/0.05/0.02/0.01 Hz sinusoidal

2)Duty Cycle: continuous

3)Load Rating

$\leq 0.5\mu\text{F}@0.1\text{Hz}$

$\leq 1.1\mu\text{F}@0.05\text{Hz}$

$\leq 2.2\mu\text{F}@0.02\text{Hz}$

$\leq 5.5\mu\text{F}@0.01\text{Hz}$

4)Measurement Accuracy: $\pm 3\%$ of reading

5)Voltage Positive and Negative Peak Error: $\leq 3\%$

6)Weight

Controller: 4kg

Booster(HV Tank): 20kg

7)Power Supply: AC220V/AC230V, 50/60Hz or AC120V, 60Hz

8)Environmental Conditions

Operating Temperature: $-10^{\circ}\text{C}\dots+50^{\circ}\text{C}$

Storage Temperature: $-20^{\circ}\text{C}\dots+70^{\circ}\text{C}$

Humidity: $\leq 85\%\text{RH}$