HVI - The World's Source for High Voltage Test Equipment

Advanced test equipment for high voltage proof and preventive maintenance testing of electrical apparatus hvinc.com

DC HIPOT/MEGOHMMETER - PTS SERIES ADVANTAGES

HIGH VOLTAGE, INC. produces the top DC Hipots available. Most models are higher in power output and offer many significant advantages over competition, yet are equal or smaller in size and lighter in weight. Our standard models range from 37.5 kVdc to 600 kVdc.

Our Advantages

Our hipots are roughly the same size and weight (some models are smaller) than competition but offer far more and at a lower price. Our DC hipots, up to 130 kVdc, are rated for **10 mA**, not 5 mA. Models up to 75 kVdc contain a **+/- 1% line voltage regulator built in** to stabilize the incoming power source, resulting in more stable and accurate leakage current readings. All have a **built in HV megohmmeter**, enabling the same instrument to be used for insulation resistance testing. Our meters use **100 µA meter movements**, rather than the 5 or 10 µA of competition. This makes our meters much more durable. We have **transit-protected meters**, reducing the breakage from rough handling during transit and our **meters use glass fronts**, not plastic, eliminating static build-up. Our custom made **enclosures are stronger**, and our overall packaging of the product is more attractive. More product, smaller size, lower cost.

PTS-75 & PTS-80 Differences

The PTS-75 and the PTS-80 are very similar. The PTS-75 offers a 0 – 75 kVdc output while the PTS-80 provides 0 – 80 kVdc. All other specifications and features are exactly the same except for one important difference. The PTS-75 contains a +/- 1% input voltage regulator circuit designed to stabilize the incoming voltage powering the instrument. This enables the user to make more precise and stable leakage current and megohm readings, as the output voltage and current, remain more stable. The PTS-80 does not have this circuit. The regulating circuit used is a ferro-resonant transformer/capacitor circuit. It is sensitive to frequency fluctuations and the input waveform. It works extremely well when the hipot is powered from utility power or a "sine wave" output inverter. It may not work properly if powered from a poorly regulated output from a motor generator (the generator may need to be preloaded) or an inverter with a "modified sine wave" output, which is really a chopped square wave. If you only have available an inverter that is not a "true sine wave" design, then buy the PTS-80.

PTS-75 Input Power: Utility voltage, stable generator, or true sine wave inverter power source
PTS-80 Input Power: Any input power source, including "modified sine wave" inverter

PTS-75
0-75 kVdc @ 10 mA

The Bucket Truck Tester

PTS-100
0-100 kVdc @ 10 mA

PTS-200
0-200 kVdc @ 5 mA

PTS-300
0-300 kVdc @ 5 mA

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All HVI Products are **MADE IN THE USA**