

HVT-50/70D

Digital High-Voltage Test Systems



- » Test voltage up to 50 kV_{rms} AC or 70 kV DC
- » High-contrast graphical display
- » Oil-insulated maintenance-free HV transformer
- » Thermal overcurrent switch-off
- » Robust two-part structure
- » High resistance to external environmental influences
- » High measurements precision
- » Overcurrent & overvoltage protection
- » Zero start/reset in event of failure
- » Advanced protection and safety

DESCRIPTION

HVT-50/70D complete test system in a mobile package, simple to set-up and operate, lightweight and ruggedly constructed. System consists of a combination control and regulator enclosure and separate high voltage section. Test voltage is continuously adjustable from zero to full output, with a zero-start interlock. All high-voltage connections are recessed to prevent accidental contact with high voltage. During testing, high voltage will automatically shut down within 50 ms of arcing or exceeding the preset trip level. Visual alarm alert the operator upon failure. The AC/DC High-Pot Tester provides a switch to select either ac or dc test voltage. HVT-50/70D line is equipped with digital metering and easy to use controls.

KiloVolt represents a complete line of the most advanced AC/DC High-Voltage Test Systems with voltage and power ratings to meet your testing requirements. Our systems function in compliance with recognized national and international industry testing standards. AC/DC High-Voltage Test Systems available from KiloVolt are designed for safety and ease of operation, and readily adapt to development, maintenance or production testing.

PRODUCTS REQUIRING DIELECTRIC TESTING INCLUDE:

- Rotating Machines
- Power Cables
- Bushings
- Instrument Transformers
- Lightning Arrestors
- Connectors
- HV Components
- Insulators
- Transmission Line Hardware
- Personal Protective Equipment for Live Work
- Cable Joints/Splices
- Switchgear (Air, Gas, Oil)
- Transformers, Shunt Reactors
- Fuses
- Insulation Materials (Oil, Paper)
- Power Capacitors
- Coils
- Circuit Breakers

TYPICAL TESTING APPLICATIONS:

- Type testing
- Acceptance testing
- Routine testing
- Preventative maintenance

TECHNICAL SPECIFICATIONS:

Testing

Output voltage

- » DC 70 kV
- » AC 50 kV

Output current

- » DC 15 mA
- » AC 45 mA

Accuracy

- » voltage $\pm 3\%$
- » current $\pm 3\%$

Operational environment

Temperature

- » Operational -10 to +45 °C
- » Storage -10 to +45 °C

Relative humidity 85 % (non-condensing)

General

Power supply 220 $\pm$ 20 V

Power frequency 50 (60) Hz

Power consumption 2.5 kVA

Dimensions

- » CU 315×366×220 mm
- » HVU 670×360×300 mm

Weight

- » CU 14 kg
- » HVU 42.5 kg

Safety and EMC

HVT-50/70D complies with the following standards:

- » low voltage EN 61010-1
- » EMC EN 61326-1