

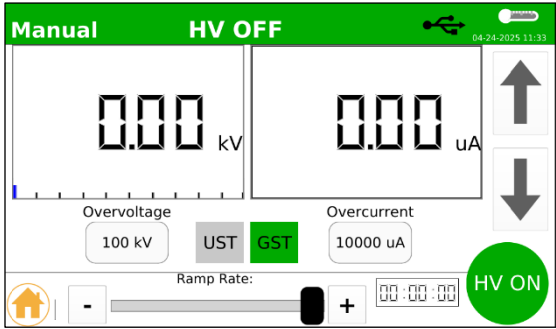
HVT-HD SERIES

Digital AC Benchtop Hipot Tester - High Duty Cycle – 30kV, 50kV - 2 kVA, 100kV - 5kVA



The HVT-HD Series Digital Benchtop AC Hipot is a modern solution for testing the insulation strength of electrical apparatus. Outfitted with a state-of-the-art digital interface and extensive safety features, the HVT-HD Series ensures simple operation, highly accurate results, and operator safety under all conditions. Designed with reliability and efficiency in mind, this model is ideal for production and manufacturing environments, where consistent performance and streamlined testing are essential. It comes equipped with a benchtop digital control section, a high-voltage transformer, an input line cord, an interconnecting cable, and ground leads.

The HVT-HD series meets ANSI/SIA A92.2, ANSI C37.20, IEC 62271-200, ASTM specifications. In addition, the 100kV model is designed for higher output current, up to 100mA at the 50kV tap. The HVT Digital series assures accurate voltage and current measurements using a high voltage divider and double current meter in the return leg of the high voltage transformer. A guard circuit prevents stray or surface leakage from being measured by the current meter. To ensure safe operation the unit is equipped with a fast-acting fuse, an external interlock, and E-Stop.



FEATURES

- Lightweight/movable design**
- Multiple measurements** including output voltage, leakage current, impedance, and phase angle
- Adjustable test parameters** such as target voltage, maximum leakage current, ramp rate, and dwell time
- Record and view test results** in internal memory
- 7" color touchscreen display** with adjustable brightness
- Most accurate current measurement** and guard circuit designed to eliminate stray leakage currents
- Meets a variety of standards including ANSI/SIA A92.2, ANSI C37.20, IEC 62271-200, ASTM specifications.**
- HIPODirect Mobile App Compatible: View, Share, Upload** test reports to online cloud, and update firmware all through WIFI Direct

BENEFITS

- Simple to Use** with minimal amount of setup time and intuitive control panel allows for simple testing
- Improved Duty Cycle**
- User-friendly** touchscreen interface
- Easy to share results** via USB transfer or HIPODirect App
- Safe operation** with interlock and emergency stop

APPLICATIONS

- Brief Description
- Aerial Platform
 - Bucket Trucks
 - Hydraulic hoses
 - Hot Sticks, Gloves, and Ropes
 - Switchgears, Vacuum bottles, and Vacuum Interrupters



100kV Transformer



50kV Transformer



30kV Transformer



TECHNICAL SPECIFICATIONS

| Model # | | 30HVT-HD | 50HVT-HD | 100HVT-HD |
|--|------------|--|--|--|
| System Output | Voltage | 0.4 - 30kV | 0.4 - 50kV | 1 - 100kV |
| | Frequency | 50/60Hz | | |
| | Current | 66mA | 40mA | 50mA (100kV tap) 100mA (50kV tap) |
| Current Ranges (auto) | | 0 -100µA / 0.1 -66mA | 0 -100µA / 0.1 -40mA | 0 - 1000µA, 0.1 - 100mA |
| Voltage & Current Measurement Accuracy | | ± 1.5% of Reading ± 0.2% F.S. | | |
| Voltage Resolution | | 100V | | |
| Current Resolution | | 0.1µA | | |
| Voltage Divider Location | | Internal | Internal | External |
| Power | | 2kVA | 2kVA | Capacitive/Inductive = 5kVA, Resistive = 1.2kVA |
| Partial Discharge | | N/A | N/A | ≤5pC at <60kV* |
| Phase Angle | | ± 10° | | |
| Input | | 90 – 265VAC, 50/60Hz | | |
| Duty Cycle | | <0.5kVA: 2hr/1hr ON/OFF 0.5-1.4KVA: 30min/1hr ON/OFF 1.5-2KVA: 15min/1hr ON/OFF | <0.5kVA: 2hr/1hr ON/OFF 0.5-1.4KVA: 30min/1hr ON/OFF 1.5-2KVA: 15min/1hr ON/OFF | 0-2.5KVA: 1hr/1hr ON/OFF 2.5-5KVA: 15min/1hr ON/OFF |
| Dimensions (W x D x H) | Controller | 17in x 21in x 8in (43cm x 52cm x 20cm) | 17in x 21in x 8in (43cm x 52cm x 20cm) | 17in x 21in x 8in (43cm x 52cm x 20cm) |
| | Bonnet | 12in x 11in x 12in (31cm x 28cm x 31cm) | 14in x 12in x 14in (36cm x 31cm x 36cm) | 17in x 14in x 32in (44cm x 37cm x 81cm) |
| Weight | Controller | 35lbs (16kg) | 35lbs (16kg) | 35lbs (16kg) |
| | Bonnet | 30lbs (14kg) | 80lbs (37kg) | 135lbs (62kg) |
| Safety Features | | Emergency Stop Visual Warning Indicators External Interlock Audible Warning Indicator | Hand Operated Interlock Switch (optional) External Warning Lamp (optional) Foot Operated Interlock Switch (optional) | |
| Display | | 7" TFT, 1024x600, Color Touch Screen | | |
| Interfaces | | USB 2.0 for Memory Stick | | |
| Output Data Format | | CSV | | |
| Calibration Interval | | 1 year recommended | | |
| ECCN: 3A992.A | | HTS: 9030.39.0100 | | |

Notes: The partial discharge level is inherent to the equipment itself without considering possible external radiated interference from the customer's dedicated mains power supply or ground noise.

| | Electronic Components | | High Voltage Components | |
|------------------|-----------------------|--------------------------------|-------------------------|--------------------------------|
| | Temperature | Humidity (r.h. non-condensing) | Temperature | Humidity (r.h. non-condensing) |
| Operation | -10°C ... +50°C | 5 ... 95% | -10°C ... +50°C | 5 ... 95% |
| Storage | -20°C ... +70°C | 5 ... 95% | -20°C ... +70°C | 5 ... 95% |

SCOPE OF SUPPLY

- Controller and HV transformer
- 25ft HV interconnect cable with clamp
- 25ft HV return cable
- 15ft HV ground cable
- 6ft input power cord
- Interlock plug
- Voltmeter probe (100kV)
- Capacitive Stylus
- Calibration Certificate

STANDARD OPTIONS

- HHDA13-280** – 120kV rated grounding stick
- HH-VMP60** – 60kV rated voltmeter probe for HVT series
- HH-VMP120** – 120kV rated voltmeter probe for HVT series
- HH-700-HS** – Hand operated interlock switch
- HH-700-FS** – Foot operated interlock switch
- HH-WARN-HV** – Safety Strobe light with magnetic base
- EXT-WARN-1** – One-year extended warranty

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