

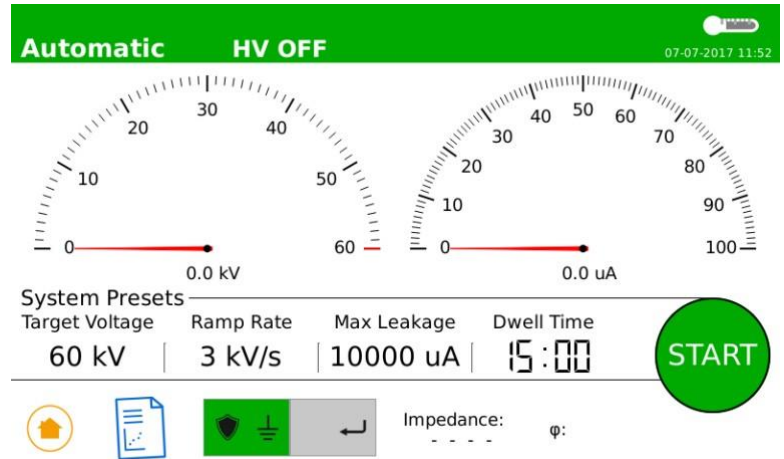
## HVT-DI Series

Digital AC Hipot Testers - 30kV, 60kV, 100kV, & 120kV



The HVT-DI Series AC Hipot Testers are the most modern digital solution to AC field-testing of bucket trucks, aerial platforms, vacuum interrupters, breakers, switchgear, and other electrical apparatus. Each model includes a portable digital controls section and bonnet and is complete with an input line cord, interconnecting cable and ground leads.

The 120kV model is specifically designed for ANSI/SIA A92.2 specification procedures for testing insulating booms on work platforms and bucket trucks. Whereas, the 30kV and 60kV models are designed to perform quick and accurate AC dielectric tests. 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 AND BENEFITS

- Environmental friendly FR3™ transformer oil
- Lightweight, rugged design for field use
- Recorded test results and data transfer via USB2.0
- 7" color, touch screen display with adjustable brightness
- Safe operation with interlock, emergency stop, and battery backup for display meters if input power is lost
- Measures output voltage, leakage current, impedance, and phase angle
- Adjustable test parameters such as target voltage, maximum leakage, ramp rate & dwell time
- Minimal setup time and simple control panel
- Most accurate current measurement and guard circuit designed to eliminate stray leakage currents
- Meets ANSI/SIA A92.2 test specifications

### APPLICATIONS

- Aerial Platform
- Bucket Truck
- Switchgear, Vacuum Bottles and Vacuum Interrupters
- Hot Sticks, Gloves and Ropes
- Hydraulic Hoses



## TECHNICAL SPECIFICATIONS

| Model #                                |            | 30HVT-DI   | 60HVT-DI                             | 120HVT-DI                            | *100HVT-DI                           |
|--|------------|--|--------------------------------------|--------------------------------------|--------------------------------------|
| System Output                          | Voltage    | 0-30kV AC  | 0-60kV AC                            | 0-120kV AC                           | 0-100kV AC                           |
|  | Frequency  | 50/60Hz  |                                      |                                      |                                      |
|  | Current    | 10mA   |                                      |                                      | 50mA (100kV Tap)<br>100mA (50kV Tap) |
| Current Ranges                         |            | 0-100uA / 0-10mA   |                                      |                                      | 0-1000uA / 0-100mA                   |
| Voltage & Current Measurement Accuracy |            | ± 1.5% of Reading ± 0.2% F.S                               |                                      |                                      |                                      |
| Voltage Divider Location               |            | Internal or External                                       |                                      | External                             |                                      |
| Dimensions                             | Controller | 19.5 x 13.7 x 20 in (50 x 35 x 51 cm)                      |                                      |                                      |                                      |
|  | Bonnet     | 17 x 13 x 13 in<br>(36 x 30 x 33 cm)                       | 17 x 14 x 15 in<br>(43 x 36 x 38 cm) | 16 x 24 x 14 in<br>(41 x 61 x 33 cm) |                                      |
| Weight                                 | Controller | 35lbs (16kg)   |                                      |                                      | 38lbs (17kg)                         |
|  | Bonnet     | 30lbs (14kg)   | 68lbs (31kg)                         | 135lbs (61kg)                        |                                      |
| Input                                  |            | 120V - 240V, 50-60Hz                                       |                                      |                                      |                                      |
| Duty Cycle                             |            | 5min ON / 5min OFF repeated max 6 times, then OFF for 2hrs |                                      |                                      |                                      |
| *≤ 10 pC Partial Discharge at < 30kV   |            |  |                                      |                                      |                                      |








## SYSTEM CONTROLS



## SCOPE OF SUPPLY

- 25 ft HV Interconnect Cable
- 25 ft HV Return Cable (BNC)
- 15 ft HV Ground
- 6 ft Input Power Cord
- Interlock Plug
- Calibration Certificate
- Operations Manual
- BNC Cable
- Voltmeter Probe (Optional for 30kV / 60kV)

## OPTIONAL ACCESSORIES

-  **HHDA13-280**  
120kV rated grounding stick
-  **HH-VMP60 / HH-VMP120**  
60kV / 120kV rated Voltmeter Probe
-  **HH-SAFE**  
Safety strobe light with magnetic base
-  **HH-FS**  
Foot operated interlock switch
-  **EXT-WARN**  
Warranty Extensions to 2 or 3 years  
Standard Warranty is 1 year
-  **HH-HS**  
Hand operated interlock switch
-  **HH-CART-DI**  
Hand cart to move HVT-DI controller and Bonnets (30kV, 60kV, 100kV & 120kV)