

# 800PL-DC

Digital DC Hipot Tester – 40kV & 80kV



■ The **800-PL-DC** DC Hipots are 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 800PL-DC ensures simplistic operation, accurate results, and operator safety under all circumstances.

The 800PL-DC features the most accurate kilovoltmeter readings regardless of load current. Voltage measurements are taken directly at the output of the high voltage transformer, while current is measured at the return leg to ensure the highest accuracy. Output power is created through a full-wave, voltage multiplier.

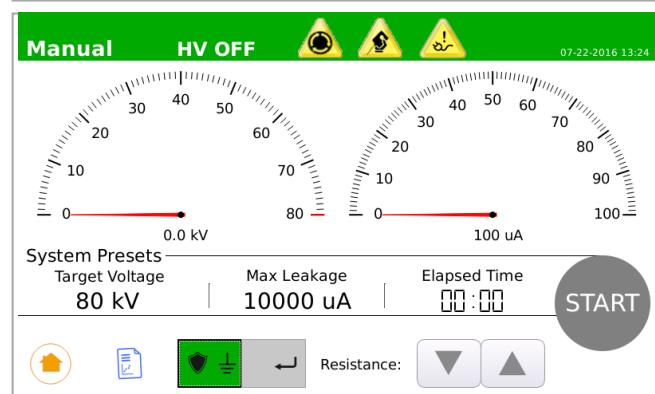
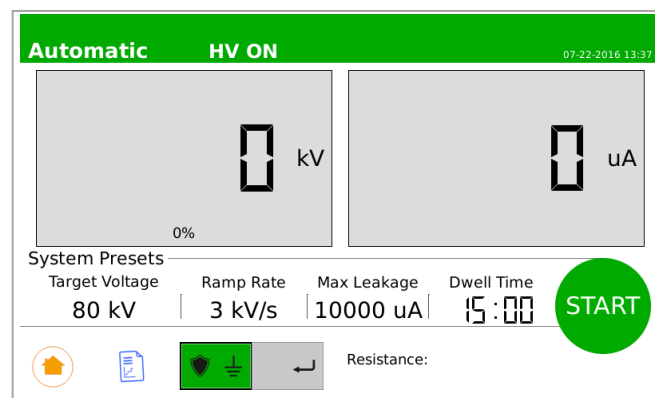
## APPLICATIONS

- Power Cable
- Transformers
- Electrical Switchgear / Vacuum Interrupters
- Motors/ Generators
- Aerial Lift Equipment / Bucket Trucks
- Insulated Electric Apparatus & Components

## FEATURES AND BENEFITS

- ✓ DC hipot tests up to 40kV or 80kV at 10mA
- ✓ Lightweight, rugged design for field use (57 lbs / 25.8kg)
- ✓ Measures output voltage, leakage current, insulation resistance (IR), and polarization index (PI)
- ✓ Adjustable test parameters such as target voltage, maximum leakage, ramp rate, and dwell time
- ✓ Recorded test results and data transfer via USB 2.0
- ✓ 7" color, touch screen display with adjustable brightness
- ✓ Full-wave voltage multiplier
- ✓ Safe operation with interlock, emergency stop, and battery backup for display meters if input power is lost
- ✓ Internal discharge solenoid

## MODES OF OPERATION





## TECHNICAL SPECIFICATIONS

| Model Number               |  | 880PL-DC   | 840PL-DC  |
|----------------------------|--|--|---|
| Dimensions (L x W x H)     |  | 19.45in x 13.7in x 20in<br>49.4 x 34.8 x 50.7 cm   |   |
| Weight                     |  | 57 lbs (25.8 kg)   |   |
| Environmental              |  |  |   |
| Operating Temperature      |  | 14...122° F (-10 .. 50°C)  |   |
| Storage Temperature        |  | -4...158° F (-20 .. 70°C)  |   |
| Humidity                   |  | 5... 95% non-condensing  |   |
| Inputs                     |  |  |   |
| Power                      |  | 90-264VAC, 45-65Hz, 900VA  |   |
| Outputs                    |  |  |   |
| Voltage                    |  | 400-80,000 VDC   | 400-40,000VDC   |
| Current                    |  | 10mA   | 10mA  |
| Polarity                   |  | Negative Output, Positive Ground   | Negative Output, Positive Ground  |
| DUT Insulation Resistance  |  | 10 kΩ...40 GΩ  | 10 kΩ...40 GΩ   |
| Duty Cycle                 |  |  |   |
| 0-60kV                     |  | 15 minutes on, 30 minutes off  | 15 minutes on, 30 minutes off   |
| 60-80kV                    |  | 3 minutes on, 15 minutes off   | n/a   |
| Measurements               |  | Resolution   | Accuracy  |
| Voltage                    |  | 100 V  | ±0.5% of full scale   |
| Current                    |  | 0.1 μA   | ±1% of scale (100μA, 10mA)  |
| Insulation Resistance (IR) |  | 10 kΩ  | ±1% of scale  |
| Safety Features            |  | Emergency Stop<br>External Interlock<br>Interlock Hand-switch<br>Interlock Foot Pedal (optional) | Visual Warning Indicators<br>Audible Warning Indicator<br>External Warning Lamp (optional)<br>Battery Backup for Display Metering |
| Display                    |  | 7" TFT , 800 x 480, Color Touch Screen,  |   |
| Interfaces                 |  | USB 2.0 for Memory Stick   |   |
| Data Formats               |  | CSV  |   |
| Calibration Interval       |  | 1 year recommended   |   |

## SCOPE OF SUPPLY

25ft HV Output Cable with Clamp  
 25ft HV Return Cable with Clamp  
 15ft HV Ground with Clamp  
 6ft Input Power Cord  
 Interlock Plug  
 Interlock Hand-Switch Operations  
 Manual  
 Calibration Certificate

## OPTIONAL ACCESSORIES



### HHDA13-280

120kV rated grounding stick

### 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

## OFFICES:

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