



# 880PL-DC

Digital DC Hipot Tester - 80kV



■ The **880PL-DC** DC 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 880PL-DC ensures simplistic operation, accurate results, and operator safety under all circumstances.

The 880PL-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

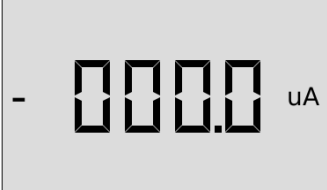
- ✓ DC hipot test up to 80kV, 10mA
- ✓ Lightweight, rugged design for field use (57 lbs / 25.8kg)
- ✓ Measures output voltage, leakage current, insulation resistance (IR), and polarization index (PI)
- ✓ Adjustable test parameters such as target voltage, maximum leakage, ramp rate, and dwell time
- ✓ 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

**Automatic HV OFF** 06-14-2015 08:00



0 kV



- 0000.0 uA

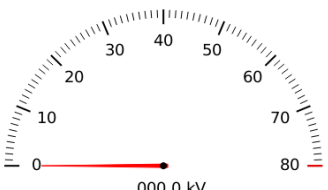
System Presets

Target Voltage	Ramp Rate	Max Leakage	Dwell Time
80 kV	3 kV/s	10000 uA	15:00

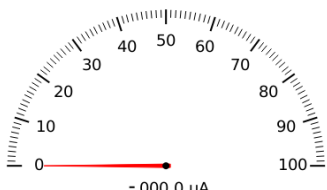
START

Resistance: .....

**Manual HV OFF** 06-14-2015 08:19



000.0 kV



-000.0 uA

System Presets

Target Voltage	Max Leakage	Dwell Time
80 kV	10000 uA	15:00

START

Resistance: .....



**TECHNICAL SPECIFICATIONS**

<b>Model Number</b>	<b>880PL-DC</b>	
<b>Dimensions</b>	19.45" L x 13.7" W x 20" H	49.4 x 34.8 x 50.7 cm
<b>Weight</b>	57 lbs (25.8 kg)	
<b>Environmental</b>		
Operating Temperature	14...122° F (-10 .. 50°C)	
Storage Temperature	-4...158° F (-20 .. 70°C)	
Humidity	5...95% non-condensing	
<b>Inputs</b>		
Power	90-264VAC, 45-65Hz, 900VA	
<b>Outputs</b>		
Voltage	100-80,000 VDC	
Current	10mA	
Polarity	Negative Output, Positive Ground	
DUT Insulation Resistance	10 kΩ...8 GΩ	
<b>Measurements</b>		
<b>Resolution</b>	<b>Accuracy</b>	
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
<b>Safety Features</b>		
Emergency Stop	External Interlock	Visual Warning Indicators
Interlock Hand-switch	Interlock Foot Pedal (optional)	Audible Warning Indicator
		External Warning Lamp (optional)
		Battery Backup for Display Metering
<b>Display</b>	7" TFT , 800 x 480, Color Touch Screen, High Brightness (Adjustable)	
<b>Interfaces</b>	USB 2.0 for Memory Stick	
<b>Data Formats</b>	CSV	
<b>Calibration Interval</b>	1 year recommended	

**SCOPE OF SUPPLY**

- 25ft HV Output Cable with Clamp
- 25ft HV Return Cable with Clamp
- 25ft HV Ground 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:**

**Europe**  
Haefely Test AG  
Birsstrasse 300  
4052 Basel  
Switzerland

☎ + 41 61 373 4111  
☎ + 41 61 373 4912  
✉ sales@haefely.com

**China**

Haefely Test AG Representative Beijing Office  
8-1-602, Fortune Street  
No. 67, Chaoyang Road, Chaoyang District  
Beijing, China 100025

☎ +86 10 8578 8099  
☎ +86 10 8578 9908  
✉ sales@haefely.com.cn

**North America**

Hipotronics, Inc.  
1650 Route 22 N  
Brewster, NY 10509  
United States

☎ +1 845 279 3644  
☎ +1 845 279 2467  
✉ sales@hipotronics.com