

800PL Series

Two Piece DC Hipot Testers

■ **The 800PL Series** DC hipot testers provide an economical solution to DC field testing of power cables, terminations, motors, generators and other electrical apparatus. Models 8120-5PL and 8170-5PL offer 120kV and 170kV respectively. Both models feature two-piece construction complete with input line cord, interconnect cable and high voltage output cable. Convenient cable storage space is provided in the control box.

The 800 Series testers feature accurate kV meter readings regardless of load current. Accurate voltage and current measurements are assured since voltage readings are taken directly at the output of the high voltage transformer and current measurements are taken in the return leg. Safe discharging of both the test object and the high voltage transformer occur whenever the high voltage is turned off. Output power is provided by means of a full-wave voltage doubling rectifier circuit with silicon rectifiers.



Features

- ☑ **Rugged and portable construction**
- ☑ **Shielded output cable**
- ☑ **Full-wave voltage doubling rectifier circuit**
- ☑ **Zero start interlock and guard circuit**
- ☑ **Internal discharge solenoid**
- ☑ **Meter accuracy $\pm 2\%$ full scale**
- ☑ **5 mA current rating for cable charging**
- ☑ **External interlock provisions**
- ☑ **Three range voltmeter**
- ☑ **Four range current meter**
- ☑ **No internal leakage at full load**
- ☑ **Instantaneous overload relay**
- ☑ **Surge-limiting resistors in HV output**

Benefits

Ideal for field testing – lightweight, compact, and rugged makes it suitable for field orientated applications

Operator Safety – the power supply and test object are automatically grounded when high voltage is turned off and there is no exposed high voltage

Simple to Use - a minimal amount of setup time and a simple control panel allows simple testing every time

Accurate Leakage Current Measurement - while guard circuit eliminates stray leakage currents

Applications

DC Hipot testing of:

- ➔ **Cable**
- ➔ **Transformers**
- ➔ **Electrical Switchgear**
- ➔ **Motors**
- ➔ **Generators**
- ➔ **Other Electrical Apparatus**

Technical Specifications

General	8120-5PL	8170-5PL
Input Voltage	120 V, 50/60 Hz 230 V, 50/60 Hz	for -A version for -B version
Output Voltage	0 - 120 kV	0 - 170 kV
Output Current	5 mA	5 mA
Polarity	Negative output, positive ground	
Metering	± 2% full scale accuracy	
Ripple	Less than 2.5%	

Weights and Dimensions (W x H x D, net weight, ship weight)

8120-5PL	12" x 10" x 19" (30 x 25 x 48 cm)	102 lbs (46 kg)	122 lbs (55 kg)
8170-5PL	12" x 10" x 30" (30 x 25 x 75 cm)	145 lbs (66 kg)	165 lbs (75 kg)
Controller	17" x 14" x 15" (43 x 36 x 38 cm)	25 lbs (11 kg)	35 lbs (16 kg)

Scope of Supply

- Qty. 1 DC Power Supply (8120PL or 8170) with controller and HV section
- Qty. 1 Input Line Cord, wire & plug, grounded type 6 feet (1.8 m)
- Qty. 1 Return Cable, 25 feet (7.6 m)
- Qty. 1 High Voltage Output cable, shielded RG34/U with alligator clip and rubber insulated boot, 25 feet (7.6 m)
- Qty. 1 Interconnect Cable, 25 feet (7.6 m)
- Qty. 1 Interlock Plug
- Qty. 1 Calibration Certificate
- Qty. 1 User's Manual

Ordering Information

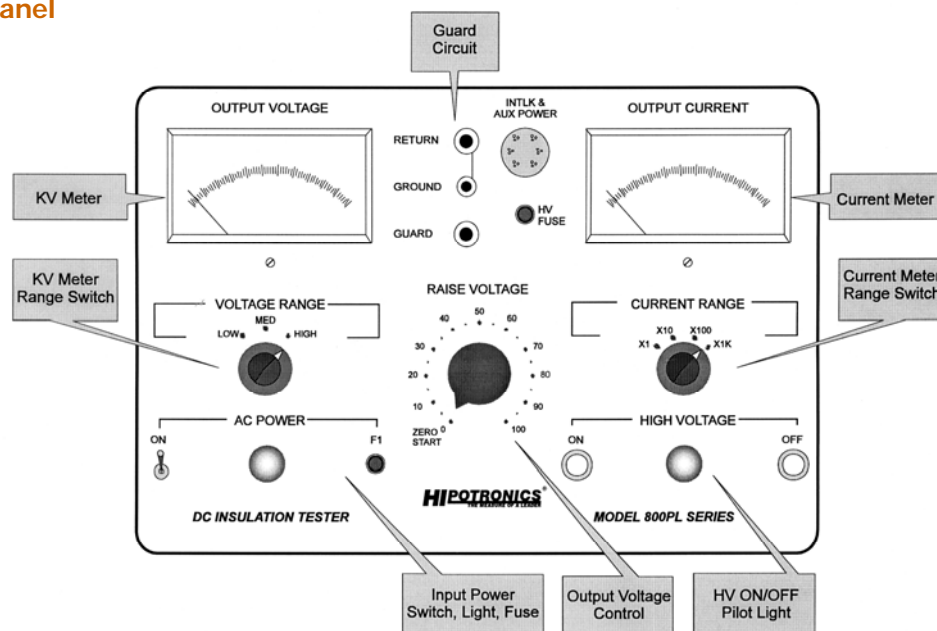
System

120 kV, 5 mA DC Hipot	8120-5PL-A
	8120-5PL-B
170 kV, 5 mA DC Hipot	8170-5PL-A
	8170-5PL-B

Accessories

Spare Parts Kits	SPK1-8120-5PL
	SPK1-8170-5PL

Control Panel



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