

800PL Analog Series

DC Hipot Testers - 120kV & 170kV



■ The **800 Series** DC Hipot Testers is an economical solution to DC field testing of cables, terminations, motors, generators and other electrical apparatus. All models are self-contained in a one or two-piece, rugged and durable enclosure. Each is complete from input line cord to high voltage output cable. This product range includes models in 120kV and 170kV DC.

The 800 Series features 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. Safe discharging of both the test object and internal transformer occur whenever high voltage is switched off. Output power is created through a full-wave, voltage doubling, silicon rectifier circuit.



Controller & HV Transformer

FEATURES

- ☑ **Environmental friendly FR3™** transformer oil
- ☑ **Rugged and portable** construction
- ☑ **Shielded** output cable
- ☑ **Full-wave** voltage doubling rectifier
- ☑ **Zero start interlock** and **guard circuit**
- ☑ **Internal discharge solenoid**
- ☑ **Meter accuracy** $\pm 2\%$ full scale
- ☑ **5mA current rating**
- ☑ **External interlock** provisions
- ☑ **Three range** voltage meter
- ☑ **Four range** current meter
- ☑ **No internal leakage** at full load
- ☑ **Instantaneous** overload relay
- ☑ **Surge-limiting resistors** in High Voltage output

BENEFITS

Ideal for field testing applications.

Automatic grounding of power supply and test object when high voltage is turned OFF.

Minimal setup time and simple control panel.

Accurate current measurement and guard circuit designed to eliminate stray leakage currents.

APPLICATIONS

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



TECHNICAL SPECIFICATIONS

Model Number		8120-5PL-*	8170-5PL-*	
System Output (V)		0 - 120kV DC	0 - 170kV DC	
System Output (A)		5mA	5mA	
Polarity		Negative Output, Positive Ground		
Metering Accuracy		±2% of full scale		
Ripple		Less than 2.5%		
Dimensions (W x H x D)	Controller	16.5 x 9 x 18 in (42 x 23 x 46 cm)		
	High Voltage Section	12 x 10 x 19 in (30 x 25 x 48 cm)	12 x 10 x 30 in (30 x 25 x 75 cm)	
Weight	Controller	Net	25 lbs (11 kg)	
		Shipping	35 lbs (16 kg)	
	High Voltage Section	Net	102 lbs (46 kg)	145 lbs (66 kg)
		Shipping	122 lbs (55 kg)	165 lbs (75 kg)
Input Voltage & Frequency		* In the model number, designate 'A' for 120V/60Hz input or 'B' for 230V/50Hz input		
Included Accessories		Input Cord, 6 ft (1.8 m)		
		Return Cable, 25 ft (7.6 m)		
		Interlock Plug		

SYSTEM CONTROLS



High Voltage Section
(pictured right)



OPTIONAL EQUIPMENT & ACCESSORIES

Part Number	Description
HHDA13-280	Grounding Stick, 120kV Max Voltage
SPK1-8120-5PL	Spare Parts Kit for 8120-5PL
SPK1-8170-5PL	Spare Parts Kit for 8170-5PL
EXT-WARN-1	One-year extended warranty



HHDA13-280 Grounding Stick
(pictured above)