

800 Series

DC Hipot Testers - 15kV, 80kV, 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 15kV, 80kV, 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.



*One-Piece Design for 15kV & 80kV models
Controller for 120kV & 170kV models*

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
- ☑ **5-10 mA 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 | | 815PL-* | 880PL-10mA-* | 8120-5PL-* | 8170-5PL-* | |
| System Output (V) | | 0 - 15 kV DC | 0 - 80 kV DC | 0 - 120kV DC | 0 - 170kV DC | |
| System Output (A) | | 5mA | 10mA | 5mA | 5mA | |
| Polarity | | Negative Output, Positive Ground | | | | |
| Metering Accuracy | | ±2% of full scale | | | | |
| Ripple | | 0.5% per mA with rated resistance | | 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 | In Controller | | 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 | 49 lbs (22 kg) | 78 lbs (35 kg) | 25 lbs (11 kg) | |
| | | Shipping | 64 lbs (29 kg) | 90 lbs (41 kg) | 35 lbs (16 kg) | |
| | High Voltage Section | Net | In Controller | In Controller | 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) | | | | |
| | | High Voltage Output Cable, shielded RG34/U with alligator clip and rubber insulated boot, 25 ft (7.6 m) | | Return Cable, 25 ft (7.6 m) | | |
| | | Calibration Certificate | | Interlock Plug | | |

SYSTEM CONTROLS



High Voltage Section for 120kV & 170kV units (pictured right)



OPTIONAL EQUIPMENT & ACCESSORIES

| Part Number | Description |
|-----------------|------------------------------------|
| HHDA13-280 | Grounding Stick, 120kV Max Voltage |
| SPK1-815PL | Spare Parts Kit for 815PL |
| SPK1-880PL-10MA | Spare Parts Kit for 880PL-10mA |
| 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)

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