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 ± 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
- Ariel Bucket Truck Testing
TECHNICAL SPECIFICATIONS

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

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

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions</th>
<th>Net Weight</th>
<th>Ship Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>8120-5PL</td>
<td>12” x 10” x 19” (30 x 25 x 48 cm)</td>
<td>102 lbs (46 kg)</td>
<td>122 lbs (55 kg)</td>
</tr>
<tr>
<td>8170-5PL</td>
<td>12” x 10” x 30” (30 x 25 x 75 cm)</td>
<td>145 lbs (66 kg)</td>
<td>165 lbs (75 kg)</td>
</tr>
<tr>
<td>Controller</td>
<td>17” x 14” x 15” (43 x 36 x 38 cm)</td>
<td>25 lbs (11 kg)</td>
<td>35 lbs (16 kg)</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>DC Power Supply</th>
<th>8120-5PL-A</th>
<th>8120-5PL-B</th>
</tr>
</thead>
<tbody>
<tr>
<td>120 kV, 5 mA DC Hipot</td>
<td>8120-5PL-A</td>
<td>8120-5PL-B</td>
</tr>
<tr>
<td>170 kV, 5 mA DC Hipot</td>
<td>8170-5PL-A</td>
<td>8170-5PL-B</td>
</tr>
</tbody>
</table>

Accessories

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

CONTROL PANEL

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