

8175-PL

75 kV Modular Portable DC Hipot Testers

■ **The 8175PL Series DC Hipot Testers** The 8175PL Series dc hipot testers offer a 175 kV to 875 kV range in a convenient cascade design. These systems are SF6 insulated with each module individually capable of producing 175 kV at 17 mA. The standard power rating is 3 kW. Low leakage measurement, even with fluctuating line voltage, is possible with the standard 1% line regulation. The design also offers reversible polarity.

This modular (expandable) construction favors the use of these portable testers in situations formerly requiring large mobile units. For example, when field testing, each technician can be equipped with one controller and as many modules as routine tests require. Then, for any non-routine higher voltage tests, additional modules may be assembled at the test site. A reusable shipping container is provided for each module for storage and transportation.



Features

- ☑ **Expandable from 175 kV to 875 kV**
- ☑ **Rugged, light weight, and portable** modular construction
- ☑ **High current output** for testing large loads
- ☑ **Reversible polarity**
- ☑ **Ripple <0.2%** per mA
- ☑ **Zero start interlock** and **external interlock** provisions for safety during operation
- ☑ **Anti-corona toroid**
- ☑ **Compact control** unit allows **remote positioning** ideal for field use
- ☑ **Withstands repeated** overloads
- ☑ **Guard Circuit**
- ☑ **Momentary current** reversal switch
- ☑ **Optional high voltage** shorting solenoid
- ☑ **Reusable shipping container** for module storage

Benefits

Quick and Easy - a modular system limits the setup time and user-friendly controls make it simple to use

Modular Construction - bring only the number of modules necessary for the required voltage

Easily transportable - SF6 insulated modules make it light weight and simple to transport in a van or pickup truck

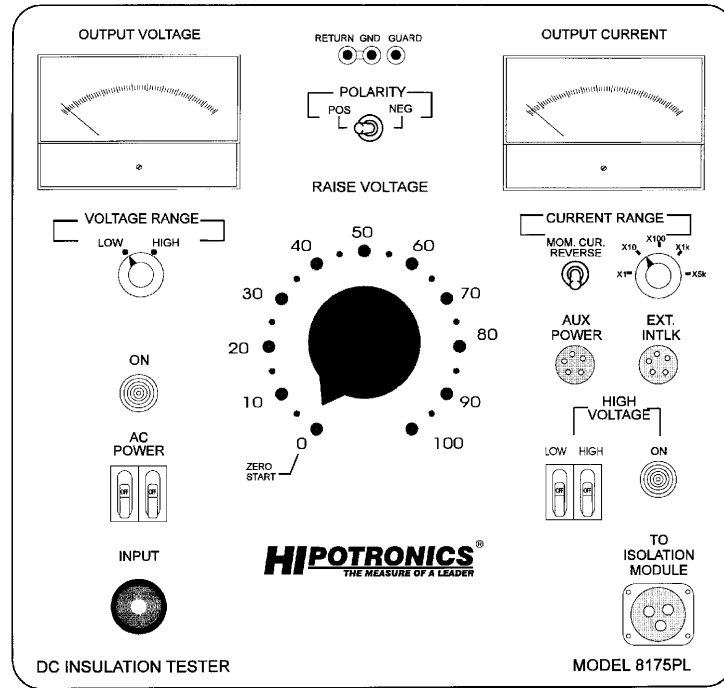
Accurate Leakage Current Measurements - while guard circuit eliminates stray leakage currents

Applications

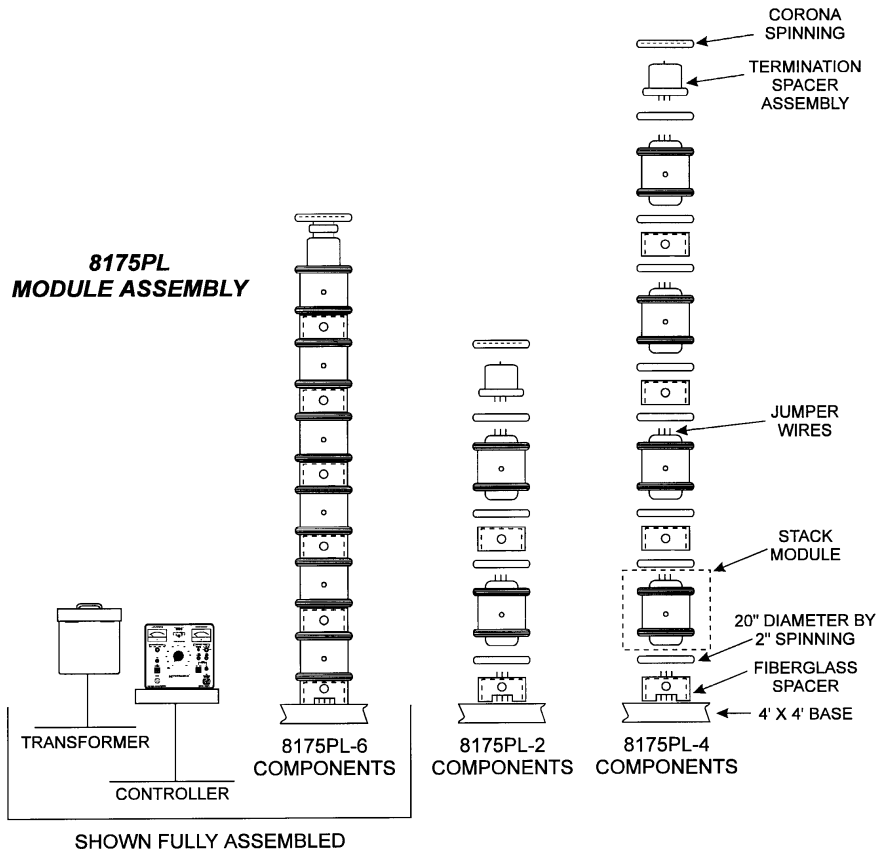
Used for hipot testing of:

- Cable
- Electrical switchgear
- Motors and Generators
- Other electrical apparatus

Control Panel



Module Assembly



Technical Specifications

General

Model Number	8175PL-1	8175PL-2	8175PL-3	8175PL-4	8175PL-5
Input Voltage / Frequency	220 volts, 50/60 Hz				
Input Current	30 Amps				
Number of Modules	1	2	3	4	5
Output Voltage (kV DC)	175	350	535	700	875*
Output Current (mA)	17	8.5	5.7	4.3	3.4
Duty Cycle	15 minutes on / 1 hour off				
Output Polarity	Reversible				
Output Ripple	< 0.2% per mA				
Voltmeter	0-100 kV dc and 0-200 kV dc				
Ammeter	0-5 / 50 / 500 μ A / 5 / 25 mA				
Accuracy	\pm 2% Full Scale				

* Toroid rating for 875 kV negative output only

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

Controller	20" x 11" x 15" (508 x 279 x 381 mm)	125 lbs (56.8 kg)	135 lbs (61.4 kg)
HV Section	18" x 26" x 18" (457 x 660 x 457 cm)	180 lbs (81.8 kg)	320 lbs (14.5 kg)
Isolation Transformer	20" x 15" x 20" (508 x 381 x 508 mm)	125 lbs (56.8 kg)	135 lbs (61.4 kg)

Ordering Information

System

175 kV, 15 mA DC Hipot	8175PL-1
350 kV, 8.5 mA DC Hipot	8175PL-2
535 kV, 5.7 mA DC Hipot	8175PL-3
700 kV, 4.3 mA DC Hipot	8175PL-4
875 kV, 3.4 mA DC Hipot	8175PL-5

Accessories

Controller kit with controls and isolation transformer	8175-CONT
175 kV Module Kit with module, spinning, insulator separator, resistor section and module interconnect leads	8175-MOD
High Voltage Expansion Kit	8175-EXT-HV
Resistor Support Kit	8175-RES
Resistor 285 k ohm, 7 kJ	R5160A
Shorting Switch, 175 kV - 1 MV	8175-SS
Lifting Tongs	8175-LFT

Scope of Supply

Qty. X	8175-MOD 175 kV Module (quantity depends upon model number)
Qty. 1	8175-CONT Controller and Isolation Transformer
Qty. 1	R5160A Resistor, 285 kohm, 7 kJ
Qty. 1	8175-RES DC Hipot Resistor Support Kit [#]
Qty. 1	8175-EXT-HV HV expansion Kit [#]
Qty. 1	Input Line Cord, 10 feet (3 m)
Qty. 1	Extension Cord, 40 feet (12.2 m)
Qty. 1	Interconnection Cable, 10 feet (3 m)
Qty. 1	Calibration Certificate
Qty. 1	User's Manual

[#] Supplied ONLY with 8175PL-4 and 8175PL-5

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