

8175 PL Series

175 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, portable modular construction
- ☑ High current output for testing large loads
- ☑ Reversible polarity
- ☑ Ripple <0.2% per mA
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- Analog kilovolt and current meters
- Zero start interlock and external interlock provisions for safety during operation
- ✓ Anti-corona toroid
- Compact control unit allows remote positioning ideal for field use
- ☑ Momentary current reversal switch
- ☑ Optional high voltage shorting solenoid
- Reusable shipping containers for modular 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

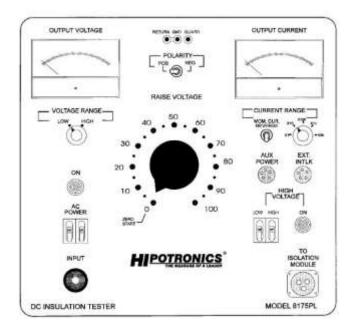
DC Hipot testing of:

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

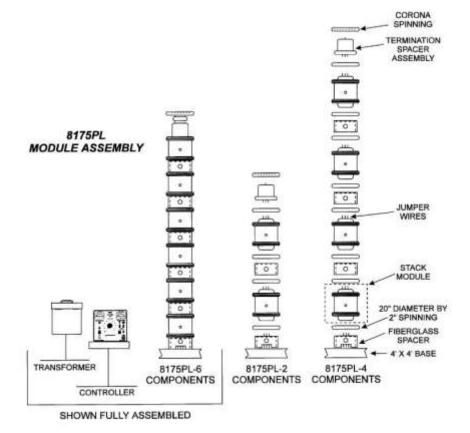
Hipotronics, Inc. 1650 Route 22. Brewster, NY 10509. United States tel: + 1 845 279 8091 | fax: + 1 845 279 2467 | email: sales@hipotronics.com



CONTROL PANEL



MODULE ASSEMBLY



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TECHNICAL SPECIFICATIONS

General

Model Number	8175PL-1	8175PL-2	8175PL-3	8175PL-4	8175PL-5
Input Voltage / Frequency		230V, 50/60Hz			
Number of Modules	1	2	3	4	5
Output Voltage (kV DC)	175	350	525	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 μA 5 / 25 mA			
Accuracy		± 2% Full Scale Accuracy			

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 mm)	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)

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

ORDERING INFORMATION

System					
	175 kV, 15 mA DC Hipot	8175PL-1			
	350 kV, 8.5 mA DC Hipot	8175PL-2			
	525 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	HHR5160A				
Shorting Switch, 175 kV - 1 MV	8175-SS				
Lifting Tongs	8175-LFT				