



HIPOTRONICS[®]
THE MEASURE OF A LEADER

175 kV/Module Expandable Portable DC Hipot Testers

FEATURES

- Expandable from 175 kV to 875 kV
- Rugged and portable
- Modular construction
- High current output
- Reversible polarity
- Ripple <0.2% per mA
- Zero start interlock
- External interlock provision
- Anti-corona toroid
- Remote positioning of control unit
- Withstands repeated overload
- Momentary current reversal switch
- Optional high voltage shorting solenoid
- Lightweight SF₆ insulation
- Reusable shipping container for module storage
- Guard circuit

BENEFITS

- Safe and easy assembly and operation
- Use only the number of modules necessary for the voltage required
- Easily transportable in a van or pickup truck
- Accurate leakage current measurements

APPLICATIONS

Used for hipot testing of:

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

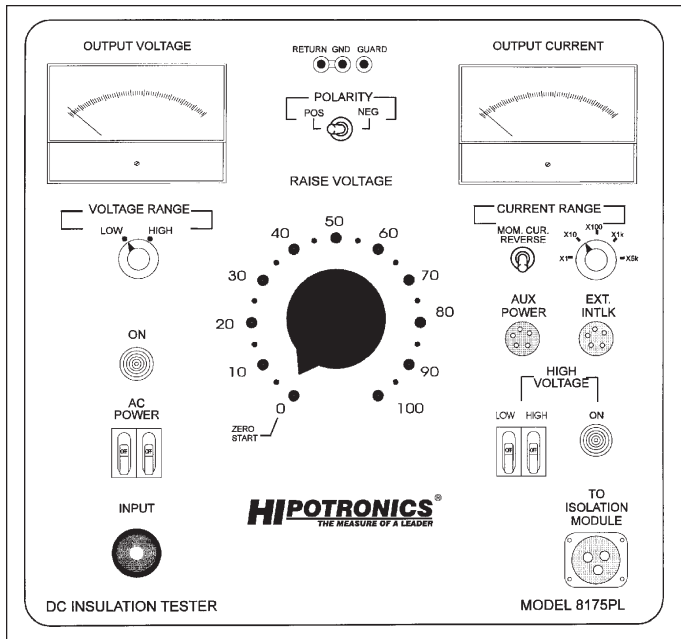


*Model 8175PL-2
Modular DC Hipot*

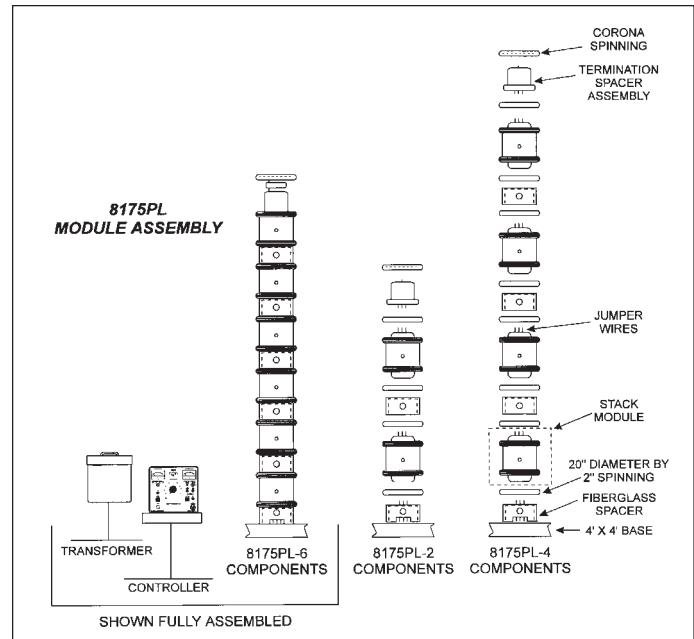
DESCRIPTION

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.



8175PL Panel Detail



8175PL Module Assembly

SPECIFICATIONS

MODEL NO.	8175PL-1	8175PL-2	8175PL-3	8175PL-4	8175PL-5
INPUT VOLTAGE	220 V / 50/60 Hz				
INPUT CURRENT	30 Amps				
OUTPUT RATED POWER	3 kW				
DUTY CYCLE	15 minutes on / 1 hour off				
OUTPUT VOLTAGE (KV DC)	175	350	525	700	875*
OUTPUT CURRENT (MA)	17	8.5	5.7	4.3	3.4
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				
DIMENSIONAL DATA	CONTROLLER	HV SECTION (for each module)		ISOLATION TRANSFORMER	
WIDTH	20" (508 mm)	18" (457 mm)		20" (508 mm)	
DEPTH	15" (381 mm)	dia.		20" (508 mm)	
HEIGHT	11" (279 mm)	26" (660 mm)		15" (381 mm)	
WEIGHT	Net	125 lb. (56.8 kg)	180 lb (81.8 kg)		125 lb (56.8 kg)
	Ship	135 lb. (61.4 kg)	320 lb (145.5 kg)		135 lb (61.4 kg)
LINE CORD	10' (3 meters)				
EXTENSION CORD	40' (12.2 meters)				
INTERCONNECTION CABLE	10' (3.0 meters)				

*Toroid rated for 875 kV negative output only

ACCESSORIES

- Optional Shorting Switch, 175 kV – 1 MV, MODEL 8175-SS
- Optional Lifting Tongs, Model 8175LFT

NOTE: Because Hipotronics has a policy of continuous product improvement, it reserves the right to change design and specifications without notice.

8175PL-DS-2

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