



# 3kV-15kV AC HIPOTS

## Description

The PHENIX line of Benchtop and single piece AC Hipots consist of a single-phase high voltage transformer, voltage regulator, controls, and measuring devices, all contained in the same cabinet.

### Safety Features

To provide optimum safety for the operator, each test set is provided with:

- Metal enclosure with provision for ground lead
- External interlock provision
- Zero-start interlock
- Input circuit breaker with indicator
- Overload circuit adjustable by means of a potentiometer from 10 to 110% of rated current; includes reset button with indicator

### Supply Voltages

The standard supply voltage is single-phase, 120 or 220\* Volts, 50/60Hz. Other input voltages are available as options.

### High Voltage Output

The output is manually adjustable with distortion less than 5%. These hipots are designed for a duty cycle of 5 min. ON/15 min. OFF.

### Cabinet

The benchtop models are housed in a rugged steel enclosure. Handles are provided for easy lifting on smaller models.

## Application

These test sets can be used for single-phase AC dielectric and insulation testing up to 15 kV, and are designed to test motors, cables, switchgear, bushings, capacitors, fuses, arrestors, and with other apparatus, according to UL, CSA, OSHA, NEMA, IEC, AEIC, IPCEA, IEEE, ASTM, and other applicable standards.

## Options

- Digital Meters—1% accuracy
- HV ON/OFF Pushbuttons
- Burn Feature
- Current Ranges w/Digital Meter option
- Guard or Bypass option for measuring only selected currents
- Higher power ratings available

\* 220V units will operate from 208V-240V.



Model 605-2P

## Design Details

The high voltage transformer is air-insulated. The voltage regulator is a variable autotransformer, air-insulated and provided with a limit switch for zero start interlock.

The low voltage arm of the output-connected voltage divider feeds the voltmeter. Total measuring accuracy is better than 2% full scale (analog units). A currentmeter is connected between return/ground and the low potential side of the high voltage winding. Total measuring accuracy is better than 3% full scale (analog units).

An adjustable electronic current overload circuit with total response time less than 30 milliseconds protects the test set and test object.

An optional “Burn Feature” is also available. The Burn Feature is a current limiting device that is connected in series with the primary winding. This feature offers the ability to burn the faults in the test specimen at a controlled current level. This Burn Feature is available with a rating from 25-100% of rated current.

## Standard Features

- Input circuit breaker with indicator
- External interlock provision
- Zero-start interlock
- HV ON momentary pushbutton with indicator
- Single range analog voltmeter connected across the output for maximum accuracy
- Single range analog currentmeter connected directly in the return/ground leg for maximum accuracy
- Manual control of output voltage
- Overload circuit adjustable from 10 to 110% of rated current; includes reset button with indicator
- Overvoltage and transient protection devices
- Input power cord (5 ft., 1.5m) with grounded shield on up to 2 kVA models
- Output cable (15 ft., 4.5m) with grounded shield
- Instruction manual with schematics and spare parts list

## Specifications \*\* Almost any higher voltage and power rating available—please inquire!

Voltage	Output (AC)		Accuracy	Size (inches) *	Size (millimeters)	Weight* lb (kg)	Power Input*	Model
	Current	kVA						
0-3kV	0-167mA	0.5	Voltage +/- 2% FS	22"W x 16"D x 12"H	558W x 405D x 305H	70 (32)	*120 VAC/ 60 Hz	603-0.5P
	0-667mA	2.0		22"W x 16"D x 12"H	558W x 405D x 305H	80 (36)		603-2P
0-5kV	0-100mA	0.5	Current +/- 3% FS	22"W x 16"D x 12"H	558W x 405D x 305H	70 (32)	or  220VAC/ 50Hz  must be specified when ordering	605-0.5P
	0-400mA	2.0		22"W x 16"D x 12"H	558W x 405D x 305H	80 (36)		605-2P
	0-1.5A	7.5		23"W x 27"D x 43"H	585W x 685D x 1092H	250 (114)		605-7.5P
	0-2A	10.0		27"W x 28"D x 42"H	685W x 710D x 1065H	410 (186)		605-10P
	0-50mA	0.5		22"W x 16"D x 12"H	558W x 405D x 305H	75 (34)		610-0.5P
0-10kV	0-200mA	2.0		22"W x 16"D x 12"H	558W x 405D x 305H	80 (36)		610-2P
	0-750mA	7.5		27"W x 22"D x 41"H	685W x 558D x 1040H	342 (155)		610-7.5P
	0-1A	10.0		28"W x 26"D x 66"H	710W x 660D x 1675H	450 (204)		610-10P
	0-2A	20.0		32"W x 22"D x 66"H	815W x 558D x 1675H	855 (388)		610-20P
	0-500mA	7.5		27"W x 23"D x 53"H	685W x 585D x 1345H	425 (193)		615-7.5P
0-15kV	0-667mA	10.0		28"W x 26"D x 66"H	710W x 660D x 1675H	480 (218)		615-10P
	0-1.33A	20.0		32"W x 22"D x 66"H	815W x 558D x 1675H	905 (410)		615-20P

\*Exact specifications should be confirmed through inquiry.

\*\*Specifications subject to change without notice.

### The PHENIX Technologies Product Line

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| <ul style="list-style-type: none"> <li>▼ High Voltage AC Dielectric Test Sets</li> <li>▼ Resonant Test Sets</li> <li>▼ Variable Frequency Resonant Test Sets</li> <li>▼ DC Hipots and Insulation Test Sets</li> <li>▼ Automatic Insulating Material Testers (D149)</li> <li>▼ Microhmmeters</li> <li>▼ Liquid Dielectric Test Sets</li> <li>▼ Megohmmeters</li> <li>▼ AC/DC Kilovoltmeters</li> <li>▼ Partial Discharge Detector</li> <li>▼ Vacuum/Oil Interrupter Testers</li> <li>▼ Bucket Truck Testers</li> <li>▼ High-Frequency Cable Aging Test Sets</li> <li>▼ Heat Cycling Test Sets</li> <li>▼ Rubber Goods-Protective Equipment Testers</li> </ul> | <ul style="list-style-type: none"> <li>▼ Core Loss Testers</li> <li>▼ AC, DC and AC/DC Motor Test Sets</li> <li>▼ Water Brake Dynamometers</li> <li>▼ Transformer Test Sets</li> <li>▼ Frequency Response Analyzer</li> <li>▼ High Current / Circuit Breaker Test Sets</li> <li>▼ Recloser Test Sets</li> <li>▼ DC Power Supplies</li> <li>▼ High Voltage DC Cable Thumpers</li> <li>▼ High Voltage Terminations</li> <li>▼ High Power Column-Type Variable Transformers</li> <li>▼ High Power Thoma-Type Variable Transformers</li> <li>▼ Voltage and Current Stabilizers</li> <li>▼ Impulse Generators/Standard Capacitors/Coupling Capacitors</li> </ul> |
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Your local representative is

**Tequipment**  
**.NET**



205 Westwood Ave  
Long Branch, NJ 07740  
1-877-742-TEST (8378)  
Fax: (732) 222-7088  
salesteam@Tequipment.NET



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