



**PHENIX**  
TECHNOLOGIES

# PORTABLE AC DIELECTRIC TEST SETS



Model 650-2P



Model 640-0.4P

## General Applications and Features

- PHENIX Technologies offers a premier line of 40, 50 and 60 kV models, providing test voltages for a wide range of electrical equipment.
- Featuring 3½ digit, digital LCD display output voltmeter and current meter for easy reading even in direct sunlight.
- High Accuracy: +/- 1% of FS
- Ruggedly constructed cases for years of field use
- Lightweight portability
- Zero start (safety interlock feature)
- Output Termination: Toroid with output lead
- Adjustable overcurrent trip from 10% to 110% of rating
- Internal Short circuit protection

## Model 650-2P Applications and Features

- 50kV AC hipot, multi-purpose, rugged design tests breakers, switchgear and many other apparatus.
- 40 mA of output current independent of test specimen type (resistive or capacitive).
- Two piece construction
- External interlock provision

## Model 650-2P Technical Specifications\*

<b>Input:</b>	120 VAC, 60 Hz, single phase, 2kVA, 20amps or 220 VAC, 50 Hz, single phase, 2kVA, 11amps
<b>Output:</b>	0-50kV AC, 40 mA
<b>Duty cycle:</b>	5 min ON/15 min OFF @ 40mA
<b>Distortion:</b>	less than 5%
<b>Metering:</b>	Single range voltmeter: 0-50 kVAC Single range ammeter: 0-40 mA
<b>Dimensions</b>	
<b>Controls:</b>	16.5" (419 mm) W x 15.25" (388mm) D x 11.25" (286 mm) H
<b>Weight:</b>	31 pounds (14 kg)
<b>HV</b>	
<b>Transformer:</b>	15" (381 mm) W x 15" (381 mm) D x 16.5" (419 mm) H
<b>Weight:</b>	79 pounds (36 kg)
<b>Cables:</b>	6 ft. (2m) input power 10 ft. (3m) interconnect (2 pcs.) 10 ft. (3m) ground 5 ft. (1.5m) output lead
<b>Options:</b>	Custom cable lengths available

## Model 640-0.4P Applications and Features

- 40kV AC, 10 mA hipot designed primarily for vacuum bottle testing, but tests breakers, switchgear, and many other apparatus.
- One piece portability for field testing
- Lightweight (56 lbs, 25 kg)
- Emergency off pushbutton
- Guard ground circuit

## Model 640-0.4P Technical Specifications\*

<b>Input:</b>	120 or 220 volts, 50-60 Hz, single phase, 400 VA, 5 amperes
<b>Output Rating:</b>	0-40 kVAC, 10 mA
<b>Duty Cycle:</b>	120 volt, 20 Min ON/30 Min OFF @ 10 mA 220 volt, 15 Min ON/45 Min OFF @ 10mA
<b>Distortion:</b>	Less than 5 percent at full load
<b>Output</b>	
<b>Termination:</b>	Toroid with output lead
<b>Metering:</b>	Single range voltmeter: 0-40 kVAC Single range ammeter: 0-10 mA
<b>Dimensions:</b>	18.5" (464 mm) W x 10.75" (273 mm) D x 19.5" (495 mm) H
<b>Weight:</b>	56 pounds (25.4 kg) 120 VAC unit
<b>Cables:</b>	8 ft. (2.4m) input power 10 ft. (3m) interconnect 10 ft. (3m) ground 10 ft. (3m) output lead
<b>Options:</b>	Custom cable lengths available

\*Based on our commitment to continual research and development PHENIX Technologies reserves the right to update product specification without notice!

## Model 660-10P Technical Specifications\*

**Input:** 120VAC, 6 amp, 50/60Hz or  
220 VAC, 3 amp, 50/60 Hz  
**Output:** 0-60kVAC (single ended) at 10mA  
**Metering:** Single range voltmeter: 0-60 kVAC  
Single range ammeter: 0-10 mA  
**Timer:** 1-999 seconds  
**Duty Cycle:** 5 min. on, 15 min. off @ 10mA

### DIMENSIONS

**Controls:** 16.5" W x 15.25" D x 11.25" H; 31 lbs  
(419mm) (388mm) (286); (14kg)

**HV Section:** 14" W x 14" D x 14" H; 70 lbs  
(356mm) (356mm) (356mm); (32kg)

**Cables:** 8 ft. (2.4m) input power  
10 ft. (3m) interconnect (2 pcs.)  
10 ft. (3m) ground  
5 ft. (1.5m) output lead

**Options:** Custom cable lengths available

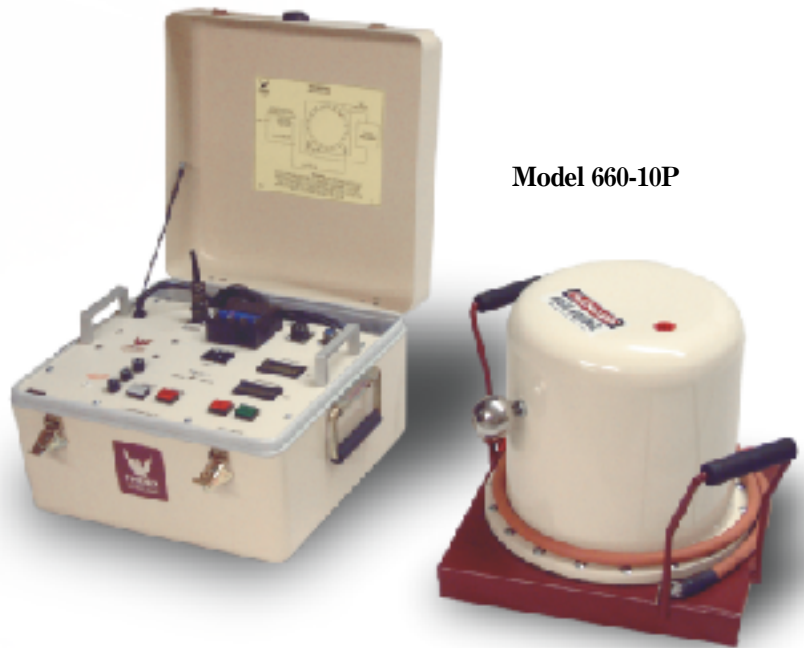
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## The PHENIX Technologies Product Line

- High Voltage AC Dielectric Test Sets
- Resonant Test Sets
- Variable Frequency Resonant Test Sets
- DC Hipots and Insulation Test Sets
- Automatic Insulating Material Testers (D149)
- Microhmmeters
- Liquid Dielectric Test Sets
- Megohmmeters
- AC/DC Kilovoltmeters
- Partial Discharge Detector
- Vacuum/Oil Interrupter Testers
- Bucket Truck Testers
- High-Frequency Cable Aging Test Sets
- Heat Cycling Test Sets
- Rubber Goods-Protective Equipment Testers
- Core Loss Testers
- AC, DC and AC/DC Motor Test Sets
- Water Brake Dynamometers
- Transformer Test Sets
- Frequency Response Analyzer
- High Current/ Circuit Breaker Test Sets
- Recloser Test Sets
- DC Power Supplies
- High Voltage DC Cable Thumpers
- High Voltage Terminations
- High Power Column-Type Variable Transformers
- High Power Thoma-Type Variable Transformers
- Voltage and Current Stabilizers
- Impulse Generators/Standard Capacitors/  
Coupling Capacitors

## Model 660-10P Applications and Features

- 60kV AC Hipot designed for field use primarily for vacuum bottle testing, however, it can be used for testing breakers, switchgear and many other apparatus.
- Tests up to 24.9 kV class interrupters in accordance with ANSI/IEEE C37.60 specifications
- Portable two-piece unit
- Digital dwell timer
- Selectable rate of voltage rise (500 volts/sec, 3000 volts/sec)
- Failure indicator with reset switch
- Automatic voltage control
- Digitally programmable set-point eliminates test voltage overshoot as found with meter relay type voltage control.
- Memory feature included in output voltmeter to record breakdown voltage. Reset switch clears unit after failure occurs.
- Single-ended high voltage transformer develops 0-60 kVAC with respect to ground potential
- 10mA of output current independent of test specimen type (resistive or capacitive)
- External interlock provision



Model 660-10P

Please visit [www.phenixtech.com](http://www.phenixtech.com) for other products offered by PHENIX TECHNOLOGIES!



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