

# Combination AC/DC Dielectric Test Sets

## 50 kV AC/70 kV DC or 100 kV AC/120 kV DC



### Testing Applications

Perform both AC and DC dielectric testing of a wide range of electrical apparatus

### Safety and Design Features

- Circuit breaker protection
- External interlock provision
- High voltage On/Off pushbuttons with indicator
- Zero Start Interlock
- Manual control of output voltage
- Adjustable overload circuit
- Slow and fast-acting transient protection on all meters and relays
- Digital timer with audible alarm
- Emergency Off pushbutton with key lockout
- Guard mode for accurate current measurements
- Output overload indicator with reset switch
- Direct metering of the output
- Operation/maintenance manual

- **Mobile 3-piece** design with **hand cart**
- **Ruggedly constructed** for both **indoor** and **outdoor** use
- **Simple set-up** and **operation**
- **ISO17025 calibration** upon request

Model  
46CP50/70-2/10



MODEL		46CP50/70-2/10	46CP100/120-3.75/10
INPUT	Voltage/Current	110-120 V, 15 A 220-240 V, 10 A	110-120 V, 30 A 220-240 V, 20 A
	Frequency	50/60 Hz	50/60 Hz
OUTPUT	Voltage/Current	~0-50 kV AC, 40 mA ~0-70 kV DC, 10 mA Negative output, positive ground	~0-100 kV AC, 37.5 mA ~0-120 kV DC, 10 mA Negative output, positive ground
DUTY CYCLE		5 min ON / 15 min OFF at 2 kVA	5 min ON / 15 min OFF at 3.75 kVA
DIGITAL METERING	Metering Accuracy	±(0.8% of Reading +0.2% Range)	±(0.8% of Reading +0.2% Range)
	Voltmeter Range	0-70 kV AC/DC	0-120 kV AC/DC
	Currentmeter Range	Multiple range up to 40 mA	Multiple range up to 40 mA
DIMENSIONS & WEIGHT (approx.)	Cart	$\frac{L \times W \times H}{\text{Weight}}$ 22" x 28" x 46" (559 mm x 711 mm x 1168 mm) 64 lbs (30 kgs)	
	Controls	$\frac{L \times W \times H}{\text{Weight}}$ 19.75" x 15.75" x 13.5" (502 mm x 400 mm x 343 mm) 47 lbs (21 kgs)	58 lbs (26 kgs)
	HV Tank	$\frac{L \times W \times H}{\text{Weight}}$ 15" x 15" x 19" (381 mm x 381 mm x 483 mm) 77 lbs (35 kgs)	16" x 16" x 32" (406 mm x 406 mm x 831 mm) 170 lbs (77 kgs)
	HV Connection Assembly	$\frac{L}{\text{Weight}}$ 28" (711 mm) collapsed to 47" (1193 mm) extended 4 lbs (2 kgs)	
	Total Unit Weight	278 lbs (127 kgs)	348 lbs (158 kgs)

## Cables Included

- Input Power 30' (9 m)
- Power Interconnect 20' (6 m)
- Meter Interconnect 20' (6 m)
- Divider Metering 20' (6 m)
- Ground (2) 20' (6 m)
- Return 20' (6 m)

## Environmental Operating Conditions

- 10-40°C, indoor/outdoor in fair weather
- Humidity <95% non-condensing
- Altitude <3300 ft (1000 meters)

## Options

- KVM Metering Head — turns High Voltage Divider into fully functional 100 kV AC/DC Kilovoltmeter (refer to brochure no. 90605).
- Positive polarity output (must be specified when ordering)
- ISO 17025 calibration
- **Flashing Light, Mounted or Stand-alone**

- Flashing Light, Mounted, Telescoping Pole
- Flashing Light with Security Circuit, magnetic base
- Red/Green Light, Folding Base, Security Circuit, E-stop, 20' (6 m) Cable



- **Ground Stick** (refer to brochure no. 40402)



**PHENIX**  
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9001:2008  
Compliant