

Field and Lab AC Dielectric Test Sets

15-200 kV



Testing Applications

Suitable for dielectric testing a wide range of electrical apparatus

Models Available

- 6CP30/15-3
- 6CP50/10-3
- 6CP100/50-7.5
- 6CP120/60-7.5
- 6CP100/50-10
- 6CP120/60-10
- 6CP200/100-10

- A **premier** line of **AC Dielectric Test Sets** with ratings from **15 to 200 kV AC**
- **Lightweight** and **ruggedly constructed** for years of field use
- Units feature **easy to read digital instrumentation** and clean, **efficient controls**
- **Simple set-up** and **operation**
- Low **partial discharge** output



Model 6CP200/100-10

Model
6CP120/60-7.5



Model 6CP30/15-3



Safety and Design Features

- 2 or 3 piece designs
- 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
- Digital multi range metering
- Emergency Off pushbutton with key lockout (excluding model 6CP30 and 6CP50)
- Guard mode for accurate current measurements
- Output overload indicator with reset switch
- All interconnect control and power cables are included
- Cable storage provision
- Operation/maintenance manual

Description

This portable rugged line of AC high voltage test equipment is ideally suited for use in the field or in the laboratory. The 6CP line offers a complete test system in a mobile package. All units in the 6CP line use a combination control and regulator enclosure and a separate high voltage section. The system is equipped with advanced digital metering, and control and protection devices which are easy to use and provide the operator with all necessary information to safely operate the system. The Metering Guard Mode allows accurate measurements of the high voltage test specimen leakage current by bypassing stray capacitive currents. The high voltage section consists of a specially designed oil insulated high voltage transformer characterized by use of an isolating cylindrical housing mounted on a rugged steel base. The high voltage output is equipped with a corona free aluminum shielding electrode. The high quality design and construction is key to the superior partial discharge performance of the 6CP line. The system arrives ready to use with all power and interconnect cables included; the simple setup allows this 6CP to be ready for testing in minutes. The rugged construction and dependability, backed by long-term warranty makes the 6CP line an ideal choice for your high voltage testing requirements.

	MODEL	6CP30/15-3	6CP50/10-3	6CP100/50-7.5	6CP120/60-7.5	6CP100/50-10	6CP120/60-10	6CP200/100-10	
INPUT	Voltage/Current	110-120 V, 16 A 220-240 V, 8 A	110-120 V, 16 A 220-240 V, 8 A	110-120 V, 30 A 220-240 V, 15 A	110-120 V, 30 A 220-240 V, 15 A	220-240 V, 30 A	220-240 V, 30 A	220-240 V, 25 A	
	Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	
OUTPUT	Voltage/Current	≈ 0-15 kV, 200 mA	≈ 0-10 kV, 300 mA	≈ 0-50 kV, 150 mA	≈ 0-60 kV, 125 mA	≈ 0-50 kV, 200 mA	≈ 0-60 kV, 166 mA	≈ 0-100 kV, 100 mA	
		≈ 0-30 kV, 100 mA	≈ 0-50 kV, 60 mA	≈ 0-100 kV, 75 mA	≈ 0-120 kV, 62.5 mA	≈ 0-100 kV, 100 mA	≈ 0-120 kV, 83 mA	≈ 0-200 kV, 50 mA	
DUTY CYCLES	5 min ON/15 min OFF	3 kVA		7.5 kVA		10 kVA			
	15 min ON/1 hr OFF	2 kVA		5 kVA		7.5 kVA			
	1 hr ON/1 hr OFF	1.5 kVA		3 kVA		5 kVA			
FEATURES	Compensation	50% Inductive Reactive		66% Inductive + Selectable Capacitive Preload		50% Inductive Reactive			
	Metering Accuracy	0.8% Reading +0.2% Full Scale							
	Voltmeter Range(s)	0-15/30 kV	0-10/50 kV	0-50/100 kV	0-60/120 kV	0-50/100 kV	0-60/120 kV	0-100/200 kV	
	Currentmeter Range(s)	0-200 μA/2 mA/ 20 mA/200 mA	0-200 μA/2 mA/ 20 mA/300 mA	0-200 μA/ 2 mA/ 20 mA/ 200 mA					
Output	HV Electrode								
PD	PD level	<10 pC							
	Optional up to 100kV	<3 pC							
CABLES INCLUDED	Power Cable	10'(3048 mm)		30'(9144 mm)					
	Power Interconnect	10'(3048 mm)		20'(6096 mm)					
	Meter Interconnect	10'(3048 mm)		20'(6096 mm)					
	Ground	10'(3048 mm)		(2) 20'(6096 mm) each				(3) 30'(9144 mm) ea	
	Return	10'(3048 mm)		20'(6096 mm)				10'(3048 mm)	
	Divider Metering	n/a		n/a					30'(9144 mm)
	Paralleling	n/a		n/a					10'(3048 mm)

Environmental Conditions

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



MODEL		6CP30/15-3	6CP50/10-3	6CP100/50-7.5	6CP120/60-7.5	6CP100/50-10	6CP120/60-10	6CP200/100-10	
DIMENSIONS & WEIGHTS	Cart(s)	Length	optional	optional	22.5"(572mm) x 29.25"(743mm) x 50"(1270mm)				
		Width			61 lbs(28 kgs)		70 lbs(32 kgs)		61 lbs(28 kgs)
	Controls	Length	16.5"(419mm) x 15.25"(388mm) x 11.25"(286mm)		21.25"(540mm) x 16.75"(426mm) x 13.75"(349mm)				
		Width	30 lbs(14 kgs)		52 lbs(24 kgs)		63 lbs(29 kgs)		
	HV Tank(s)	Length	14" (356 mm)	14" (356 mm)	16"(406mm)	19"(483mm) x 19"(483mm) x 30"(762mm)			19"(483mm)
		Width	14" (356 mm)	14" (356 mm)	16"(406mm)				19"(483mm)
	Height	17" (432 mm)	17" (432 mm)	30"(762mm)				53"(1346mm)	
Weight	76 lbs(34 kgs)	80 lbs(36 kgs)	178 lbs(81 kgs)	255 lbs(116 kgs)	280 lbs(127 kgs)	280 lbs(127 kgs)	240 lbs(109 kgs)	222 lbs(101 kgs)	
HV Divider	Length	HV Divider is internal						9"(229mm)	
	Width							9"(229mm)	
Height	43"(1092mm)								
Weight	40 lbs(18 kgs)								
Cables	Weight	6 lbs(3 kgs)		20 lbs(9 kgs)		30 lbs(14 kgs)			
Total Unit	Weight	112 lbs(51 kgs)	116 lbs(53 kgs)	311 lbs(141 kgs)	388 lbs(176 kgs)	443 lbs(201 kgs)	443 lbs(201 kgs)	656 lbs(298 kgs)	

SHIPPING SIZES		Length	Width	Height	Weight	Length	Width	Height	Weight	Length	Width	Height	Weight	Length	Width	Height	Weight	Length	Width	Height	Weight		
Package 1	Length	21" (533 mm)	21" (533 mm)	34"(864mm)	34"(864mm)	34"(864mm)	34"(864mm)	34"(864mm)	34"(864mm)	34"(864mm)	34"(864mm)	34"(864mm)	34"(864mm)	34"(864mm)	34"(864mm)	34"(864mm)	34"(864mm)	34"(864mm)	34"(864mm)	34"(864mm)	34"(864mm)	34"(864mm)	34"(864mm)
	Width	21" (533 mm)	21" (533 mm)	27"(686mm)	27"(686mm)	27"(686mm)	27"(686mm)	27"(686mm)	27"(686mm)	27"(686mm)	27"(686mm)	27"(686mm)	27"(686mm)	27"(686mm)	27"(686mm)	27"(686mm)	27"(686mm)	27"(686mm)	27"(686mm)	27"(686mm)	27"(686mm)	27"(686mm)	27"(686mm)
	Height	16" (406 mm)	16" (406 mm)	56"(1422mm)	56"(1422mm)	56"(1422mm)	56"(1422mm)	56"(1422mm)	56"(1422mm)	56"(1422mm)	56"(1422mm)	56"(1422mm)	56"(1422mm)	56"(1422mm)	56"(1422mm)	56"(1422mm)	56"(1422mm)	56"(1422mm)	56"(1422mm)	56"(1422mm)	56"(1422mm)	56"(1422mm)	56"(1422mm)
	Weight	37 lbs(17 kgs)	37 lbs(17 kgs)	353 lbs(160 kgs)	430 lbs(195 kgs)	485 lbs(220 kgs)	485 lbs(220 kgs)	485 lbs(220 kgs)	485 lbs(220 kgs)	485 lbs(220 kgs)	485 lbs(220 kgs)	485 lbs(220 kgs)	485 lbs(220 kgs)	485 lbs(220 kgs)	485 lbs(220 kgs)	485 lbs(220 kgs)	485 lbs(220 kgs)	485 lbs(220 kgs)	485 lbs(220 kgs)	485 lbs(220 kgs)	485 lbs(220 kgs)	485 lbs(220 kgs)	485 lbs(220 kgs)
Package 2	Length	20" (508 mm)	20" (508 mm)									34"(864mm)											
	Width	20" (508 mm)	20" (508 mm)									27"(686mm)											
	Height	20" (508 mm)	20" (508 mm)									56"(1422mm)											
	Weight	83 lbs(38 kgs)	86 lbs(39 kgs)									372 lbs(169 kgs)											
Package 3	Length																	34"(864mm)					
	Width																	27"(686mm)					
	Height																	56"(1422mm)					
	Weight																	66 lbs(30 kgs)					



PHENIX Technologies is committed to providing leadership, innovation, technology, quality, and service in all areas of our business.

Our 85,000 square-foot headquarters is a modern manufacturing facility. All aspects of electrical, mechanical, and software design and production are performed in this facility. Our engineers offer a unique blend of theoretical knowledge and practical experience. Our Service and Calibration Department assists customers during and after installation to ensure years of trouble free service.

We carry our commitment into the future as we proudly continue to provide the best in **high voltage, high current, high power test systems and components.**



PHENIX TECHNOLOGIES

WORLD HEADQUARTERS

Phenix Technologies, Inc.

75 Speicher Drive
Accident, MD 21520 USA
Ph: +1.301.746.8118
Fx: +1.301.895.5570
Info@phenixtech.com

BRANCH OFFICES

Phenix Systems AG

Riehenstrasse 62A, 4058 Basel, Switzerland
Ph: +41.61.383.2770, Fx: +41.61.383.2771, Info@phenixsystems.com

Phenix Asia

Zhong Cheng Rd, Sec 1, No 177, 2F, Taipei 11148 Taiwan
Ph: +886.2.2835.9738, Fx: +886.2.2835.9879, Info@phenixasia.com

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