



Modular DC Hipots

60-600 kV

- Lightweight and rugged for ease of mobility
- Expandable
- Air insulated design

TESTING APPLICATIONS

Perform precise DC hipot testing of electrical switchgear, cables, motors, generators, and protective equipment

DESCRIPTION

Phenix Technologies offers Modular DC Hipots with 1 to 6 stackable modules mounted on a mobile base that will generate a DC voltage in increments of either 60 kV or 100 kV.

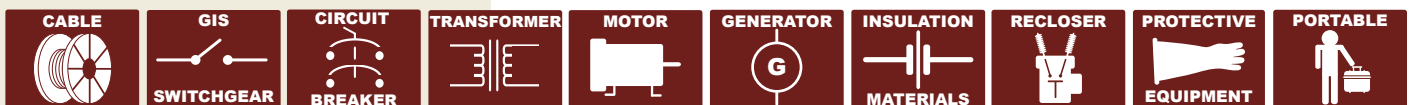
The 60 kV model is capable of generating a DC voltage in increments of 60 kV DC up to 360 kV DC and the 100 kV model is capable of generating a DC voltage in increments of 100 kV DC up to 600 kV DC.

Each module is rated for 5 mA and is air insulated. Cooling AN (Air-Natural, Convection). Both models offer reversible polarity.

Each model consists of a base with casters, corona rings, a control cabinet, a regulator cabinet, and the required number of modules to reach the desired voltage.



Model 4500-5ST-100



Specifications are subject to change without notice.

SAFETY and DESIGN FEATURES

- Stackable modules utilizing unique spring loaded contact design
- No wires between modules
- Expandable from 60 kV DC to 360 kV DC or 100 kV DC to 600 kV DC
- Reversible polarity
- Zero Start interlock
- External interlock provision
- Motorized control of output voltage
- Multi-range digital metering
- Guard circuit to eliminate stray leakage current from specimen under test
- Ripple <5%
- Two copies of operation/maintenance manual



OPTIONS

- Input power cable (length and receptacle required to be specified)
- Computerized controls
- Discharge device
- HV series resistor
- Ground stick
- Discharge stick
- Reusable shipping containers

ENVIRONMENTAL CONDITIONS

- 10-40°C, indoor/outdoor in fair weather
- Humidity <95% non-condensing
- Altitude <3000 ft (1000 meters)



Ground Stick

Model GS100-2 Ground Stick, 2-piece design, with a 25' (8 m) ground lead



Discharge Stick

Model DS100-2 Discharge Stick (100 kV, 100 kΩ, 50 kJ), 2-piece design, with a 25' (8 m) ground lead



Modular DC Hipots 60-600 kV

	MODEL	460-5ST-60	4120-5ST-60	4180-5ST-60	4240-5ST-60	4300-5ST-60	4360-5ST-60
INPUT	Voltage / Current	208-240 V, 2.5 A	208-240 V, 5 A	208-240 V, 7.5 A	208-240 V, 10 A	208-240 V, 12.5 A	208-240 V, 15 A
	Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
DC OUTPUT	Power	300 W	600 W	900 W	1200 W	1500 W	1800 W
	Voltage / Current	60 kV, 5 mA	120 kV, 5 mA	180 kV, 5 mA	240 kV, 5 mA	300 kV, 5 mA	360 kV, 5 mA
	Ripple	<5%					
	Polarity	reversible					
DUTY CYCLE	Capacitive Loads	30 minutes ON / 60 minutes OFF at full rated output					
	Resistive Loads	5 minutes ON / 15 minutes OFF at full rated output					
DIGITAL METERING	Type / Accuracy	4 1/2 digit, +/- (0.8% of reading +0.2% of range +LSD)					
	Voltmeter Range(s)	0-60 kV	0-120 kV	0-180 kV	0-240 kV	0-300 kV	0-360 kV
	Currentmeter Range(s)	199.99 μ A / 1.9999 mA / 5.000 mA (Guarded Return) 5.000 mA (Grounded Return)					

	MODEL	4100-5ST-100	4200-5ST-100	4300-5ST-100	4400-5ST-100	4500-5ST-100	4600-5ST-100
INPUT	Voltage / Current	208-240 V, 2.75 A	208-240 V, 5.5 A	208-240 V, 8.25 A	208-240 V, 11 A	208-240 V, 13.75 A	208-240 V, 16.5 A
	Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
DC OUTPUT	Power	500 W	1000 W	1500 W	2000 W	2500 W	3000 W
	Voltage / Current	100 kV, 5 mA	200 kV, 5 mA	300 kV, 5 mA	400 kV, 5 mA	500 kV, 5 mA	600 kV, 5 mA
	Ripple	<5%					
	Polarity	reversible					
DUTY CYCLE	Capacitive Loads	30 minutes ON / 60 minutes OFF at full rated output					
	Resistive Loads	5 minutes ON / 15 minutes OFF at full rated output					
DIGITAL METERING	Type / Accuracy	4 1/2 digit, +/- (0.8% of reading +0.2% of range +LSD)					
	Voltmeter Range(s)	0-100 kV	0-200 kV	0-300 kV	0-400 kV	0-500 kV	0-600 kV
	Currentmeter Range(s)	199.99 μ A / 1.9999 mA / 5.000 mA (Guarded Return) 5.000 mA (Grounded Return)					

	Controls	Single 60 kV HV Module	Single 100 kV HV Module	Regulator	Base	
DIMENSIONS & WEIGHTS	Length	21" (533 mm)	16" (406 mm)	17" (432 mm)	24" (610 mm)	56" (1422 mm)
	Width	18" (457 mm)	16" (406 mm)	17" (432 mm)	20" (508 mm)	56" (1422 mm)
	Height	12" (305 mm)	22" (559 mm)	27" (686 mm)	20" (508 mm)	12" (305 mm)
	Weight	40 lbs (18 kgs)	75 lbs (34 kgs)	110 lbs (50 kgs)	175 lbs (79 kgs)	100 lbs (45 kgs)

CABLES INCLUDED

Input Power Cable	optional
Power Interconnect	50' (15 m)
Meter Interconnect	50' (15 m)
Control Interconnect	50' (15 m)





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

Our 70,000 square-foot headquarters is a modern manufacturing facility. All aspects of electrical, mechanical, and software design and production are performed in this facility and controlled by an ISO9001 certified quality program. 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.

High Voltage • High Current • High Power Test Systems and Components

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