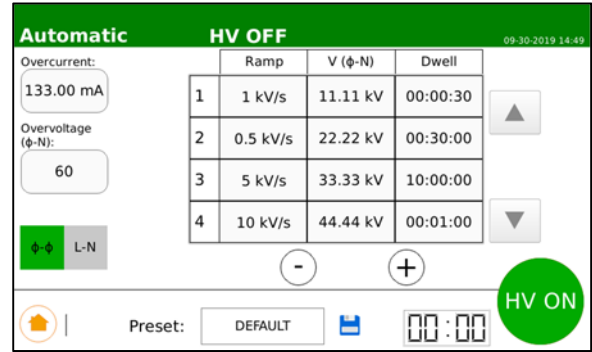


700-DI 3-Phase AC Dielectric Test Sets

High Voltage AC Test Systems – 2-100kVA – 3 Phase Output

The HIPOTRONICS line of 3 Phase AC Dielectric Test Systems are designed to perform high voltage AC tests on electrical apparatus in accordance with IEC60, IEEE 4 and IEC 270 and other national test standards. A variety of mechanical configurations are available to suit different installation conditions. Some models can be supplied in mobile versions when it is difficult to move the test object to the test area.

AC Dielectric Test Sets are available in a wide range of voltage and power ratings with exceptional reliability, durability and functionality. No matter what your requirement, HIPOTRONICS has an affordably priced, highly reliable test solution to meet your needs.



FEATURES

- Microprocessor controller** provides better regulation accuracy and measuring accuracy
- Continuously adjustable test output voltage**
- Selectable 3-Phase or Single-Phase** output
- SIL3** Compatible
- Designed** to operate from 0.5% to 100% (2kVA & 5kVA), or 3.5% to 100% ($\geq 10\text{kVA}$) of the maximum rated output voltage
- Adjustable Overload** from 10% to 110% of rated current output
- Backup Breaker** overload safety situation
- Output Connected** voltmeter and ammeter
- Zero start interlock** ensures the voltage control is at a minimum before HV can be energized
- Rated current** throughout voltage range

BENEFITS

- Simple to Use** with minimal amount of setup time and intuitive control panel allows for simple testing
- Surge and Transient Protection** on all meters, transformers, etc.
- Partial Discharge Option** allows for low PD levels at full output voltage

APPLICATIONS

- Transformers
- Switchgear
- Rotating Machines
- Sample Cable Lengths
- Rotating Machines

TECHNICAL SPECIFICATIONS

Model #		730-30	775-30	7100-30
System Output	Voltage (Line to Ground)	30kV	75kV	100kV
	Current	333mA	133mA	100mA
Voltage Measurement Accuracy		±1.5% of reading ± 0.2% of full scale		
Ramp Rate Accuracy		+/- 5%		
Measurement Resolution		0.01kV, 0.01mA		
Step Resolution		0.5% of Full Scale		
PD Baseline		≤20pC up to full voltage for oil insulated transformers		
Regulator Dimensions (W x H x D)		30.5" x 58.6" x 31.1" (774.7mm x 1488.4mm x 789.9mm)		
Regulator Weight		513 lbs (639.6kg)	513 lbs (639.6kg)	513 lbs (639.6kg)
HV Transformer Dimensions (W x H x D)		20" x 33" x 25" (510mm x 840mm x 635mm)	25" x 46.2" x 36.8" (635mm x 1175mm x 935mm)	25" x 36.7" x 46" (635mm x 935mm x 1170mm)
HV Transformer Weight (each) Qty 3 total		500lbs (147.9kg)	860lbs (390kg)	900lbs (408kg)
Input Voltage		480V, single phase, 60Hz; 380V, single phase, 50Hz.*		
Duty Cycle		1hr ON / 1hr OFF, 6x/day or Continuous @ 90% rated voltage, and 75% rated current		
ECCN: 3A992.A		HTS US: 9030.39.0100		

Notes: Other output voltage and power rating combinations available; consult factory. The PD level is inherent to the equipment itself without considering possible external radiated interference from the customer's dedicated mains power supply or ground noise. Dimensions & weights are approximate and subject to change.

* Other inputs available. Consult Factory.

	Electronic Components		High Voltage Components	
	Temperature	Humidity (r.h. non-condensing)	Temperature	Humidity (r.h. non-condensing)
Operation	+5°C ... +40°C	5 ... 95%	-10°C ... +45°C	5 ... 90%
Storage	-20°C ... +70°C	5 ... 95%	-10°C ... +55°C	5 ... 90%

SCOPE OF SUPPLY

Embedded controller
Regulator
HV transformers (qty 3)
HV warning lamp
Manual, test report, and calibration certificate

CUSTOMER SUPPLIED

Input & Output Regulator Power Cables
Grounding Materials
High Voltage Output Connection to Test Object

STANDARD OPTIONS

HHDA13-280 – 120kV Rated Grounding Stick
CF – ≤2pC Partial Discharge Specification
DI-REM-SFTW – Remote Control Software with External E-Stop Button
Galvanic Control (GC) – Fiber optic connection to customer supplied computer, 10m
Galvanic E-stop (GE) – GC with remote E-stop button with fiber optic connection, 10m
DI-FO-X – Extra fiber optic cable (20, 30, 50m)
GND Braid – Grounding material
HH-700-HS – Hand operated interlock switch
HH-700-FS – Foot operated interlock switch
Casters – Set of casters for regulator & HV tank (if applicable)