

# Oil Dielectric Test Sets

0–60 kVac and 0–100 kVac



DTS-60D



DTS-100D

### Description

The **DTS Series** of Oil/Liquid Dielectric AC test sets provide repeatable and accurate measurement of the breakdown voltage of insulating fluids used in transformers, circuit breakers, bushings, capacitors, etc. It is rugged, reliable, and designed with field use in mind.

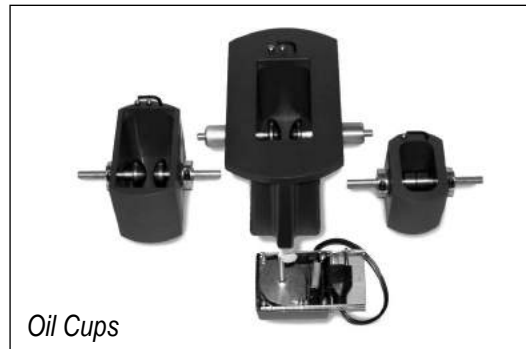
### Features

- Three motorized rates of rise: 500V/2000V/3000V per second
- Rate of rise selector switch
- Arc detection with automatic shutdown
- Zero Start safety and test chamber interlock provision
- One-piece portable design
- Window panel for test observation
- Failure indicator
- Accessory outlet located within test chamber
- Simple controls

### Test Cells

High Voltage, Inc. offers 60kV and 100kV test cells capable of testing to ASTM D877 and D1816 and IEC 156 standards.

Oil Tester		Applicable Testing Standard
DTS-60D	DTS-100D	
TCD-3	TCD-N3	ASTM D877
TCD-5	TCD-N5	ASTM D1816
TCD-I2	TCD-NI2	IEC 156



Oil Cups



**HIGH VOLTAGE, INC.**  
ISO 9001 : 2008

31 County Rt. 7A • Copake, NY 12516 • (518) 329-3275 • Fax: (518) 329-3271  
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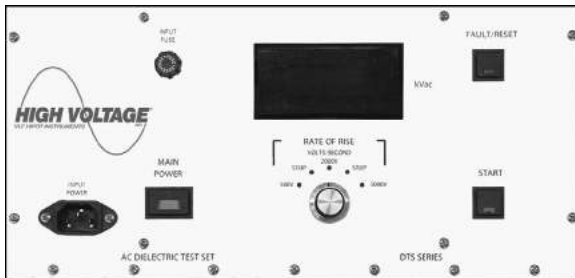
High Voltage, Inc. designs and manufactures high voltage test equipment for utility and industrial applications. Also available are Very Low Frequency (VLF) high voltage AC test sets, DC power packs, AC and DC instrumented test sets, cable fault locators and other products.



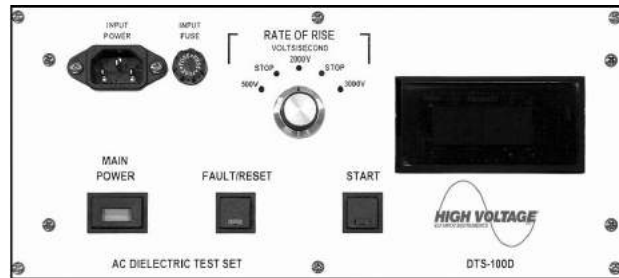
# Oil Dielectric Test Sets

Technical Data		
	DTS-60D	DTS-100D
<b>Input</b>	120V, 60Hz, 7 Amps or 230V, 50/60Hz, 4 Amps	120V, 60Hz, 7 Amps or 230V, 50/60Hz, 4 Amps
<b>Output</b>	0 – 60 kVac, 800 VA Resistive Load	0 – 100 kVac, 800 VA Resistive Load
<b>Output Termination</b>	Dual capacitively graded bushings with cradle contact mounting in test chamber	Dual high voltage sections with brass corona spheres mounting in test chamber
<b>Testing Standards</b>	ASTM D877, ASTM D1816, IEC 156	ASTM D877, ASTM D1816, IEC 156
<b>Gap Gauges Available</b>	0.04" / 0.08" / 0.10" ± 0.0002" 1 mm / 2 mm / 2.5 mm ± 0.005 mm	0.04" / 0.08" / 0.10" ± 0.0002" 1 mm / 2 mm / 2.5 mm ± 0.005 mm
<b>Operating Temperature</b>	-14°F to 104°F -10°C to 40°C	-14°F to 104°F -10°C to 40°C
<b>Distortion</b>	<5%	<5%
<b>Kilovolt Meter and Accuracy</b>	3.5 Digit LED, Scaled 0 – 60 kVac RMS 2% of full scale	3.5 Digit LED, Scaled 0 – 100 kVac RMS 2% of full scale
<b>Dimensions and Weight</b>	15" w x 14" d x 11.5" h, 65 lbs. 381 mm w x 356 mm d x 292 mm h, 29 kg	18.5" w x 16.5" d x 16.5" h, 100 lbs. 470 mm w x 419 mm d x 419 mm h, 45 kg

**NOTE:** For 230 Volt line input models, an *F* is suffixed to the model number.



DTS-60D Front Panel



DTS-100D Front Panel

## Our Company and Our Products

High Voltage, Inc. manufactures the most advanced test equipment available for high voltage proof and preventive maintenance testing of electrical apparatus. All of our products are newly designed to meet the present day needs of utilities, industrials, and testing services. Our products offer features and specifications not found elsewhere. Our products include unique, sine-wave output **Very Low Frequency (VLF) AC Hipots**, **DC Insulation/HV Megohmmeter Test Sets**, **Aerial Lift Testers**, **AC Hipots**, **Cable Thumpers & Radars** and **AC Oil Dielectric Testers**.



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