

HIGH VOLTAGE, INC. OIL DIELECTRIC TEST SETS DTS SERIES PRODUCT CATALOG

DTS SERIES CONTENTS

Oil Dielectric Test Sets for Field, Shop, and Factory Use	/2
Test Cells/Oils Vessels	3
Controls and Configurations	2
Optional Accessories	2
DTS Series Specifications	E

For further information and to see our complete product line, please visit www.hvinc.com

OIL DIELECTRIC TEST SETS FOR FIELD, SHOP, AND FACTORY USE

The DTS D Series are 0-60 kVac and 0-100 kVac CE Marked liquid dielectric test sets, typically used for testing the breakdown voltage level of insulating oils, hydraulic oils, and other dielectric fluids per the most common world standards including ASTM D-877, ASTM D1816, and IEC 156. Three user-selectable automatic voltage rates-of-rise, and automatic voltage shutdown with the meter indicating the breakdown voltage of the insulating liquid under test. Its durable aluminum construction, small footprint, a removable oil drip tray, and rugged design make our DTS series ideal for field, factory, or laboratory use.







DTS-100D

The DTS A Series are 0-60 kVac and 0-100 kVac fully automatic liquid dielectric test sets, typically used for testing the breakdown voltage level of insulating oils, hydraulic oils, and other dielectric fluids. The most common world standards including ASTM D-877, ASTM D1816, and IEC 156 are preprogrammed into the controls for easy operation. Just hit the start button and the test is performed. Custom test sequences may also be programmed. Test results are stored internally and can be downloaded to a computer via RS232 or printed using the onboard thermal printer. Convenience features like a removable oil drip tray, removable test cell storage tray and rugged design make our DTS series ideal for field, factory, or laboratory use.



DTS-60A



DTS-100A

Test Cells/Oil Vessels

High Voltage, Inc. offers 60kV and 100kV test cells capable of testing to ASTMD877 and D1816 and IEC 156 standards as well as many local standards such as UTE C27-221/74, CEI 10-1/73, VDE 370, IRAM 2341/72, RVHP 1985, and PN-77/ED4408.

60kV Test Sells

- TCD-3 For ASTM D877, flat disc electrodes, 150mL sample size, 0.100-inch gap adjustment gauge
- TCD-5 For ASTM D1816, spherical electrodes, 625mL sample size, 0.100, 0.080, and 0.040-inch gap adjustment gauges, includes motorized stirring assembly
- TCD-12 For IEC 156, spherical electrodes, 625mL sample size, 0.100, 0.080, and 0.040-inch gap adjustment gauges



100kV Test Sells

- TCD-N3 For ASTM D877, flat disc electrodes, 625mL sample size, 0.100-inch gap adjustment gauge
- **TCD-N5** For ASTM D1816, spherical electrodes, 625mL sample size, 0.100, 0.080, and 0.040-inch gap adjustment gauges, includes motorized stirring assembly
- TCD-12 For IEC 156, spherical electrodes, 625mL sample size, 0.100, 0.080, and 0.040-inch gap adjustment gauges



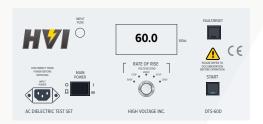
Controls and Configuration

DTS-60D and DTS-100D

- Three motorized rates of rise: 500V/2000V/3000V per second
- Arc detection with automatic shutdown and failure indicator
- Window panel for test observation
- Convenient removable tray for test cell storage
- Convenient removable drip tray in bottom of test chamber
- Accessory outlet located within test chamber
- One-piece portable design
- Zero Start safety and test chamber interlock provision

DTS-60A and DTS-100A

- Clear and easy to use controls
- 128 x 64 dot matrix crystal display
- "12 preprogrammed standard test sequences; ASTM D1816/12, ASTM D877/13, IEC 156/95, IEC 156/63, ASTM D1816/84, ASTM D877/87, UTE C27-221/74, CEI 10-1/73, VDE 370, IRAM 2341/72, RVHP 1985, and PN-77/ED4408
- Internal memory holds last 50 tests w/ RS232 interface
- User definable test sequences
- Ambient temperature sensor
- English, German, Spanish, French, Greek
- Thermal printer included





Optional Accessories



Reusable Shipping Container

Reusable hard shipping cases designed for safe transportation of your DTS Series Oil/Liquid Dielectric Test Set.

DTS Series Specifications





	DTS-60D	DTS-100D
Input:	120 V, 60 Hz, 7 A (DTS-60D)	120 V, 60 Hz, 7 A (DTS-100D)
	230 V, 50/60hz, 3 A (DTS-60DF)	230 V, 50/60hz, 3 A (DTS-100DF)
Output:	0-60 kVac, 800 VA resistive load	0-100 kVac, 800 VA resistive load
Meter Accuracy:	+/- 2% of full scale	+/- 2% of full scale
Optional Test Cells:	TCD-3 for ASTM D877, TCD-5 for ASTM	TCD-N3 for ASTM D877, TCD-N5 for ASTM
(Sold Seperately)	D1816, TCD-I2 for IEC 156	D1816, TCD-NI2 for IEC 156
Operating	14° to 104° F, -10° to 40° C	14° to 104° F, -10° to 40° C
Temperature:		
Size & Weight:	14.75 × 14 × 11.5 in., 60lb	18.5 x 16.5 x 16.5 in., 100lb
	375 x 356 x 291 mm, 27kG	470 x 419 x 419 mm, 45kG
Output Termination:	Dual capacitively graded bushings in test	Dual capacitively graded bushings in test
	chamber	chamber





	DTS-60A	DTS-100A
Input:	120 V, 60 Hz, 7 A (DTS-60A)	120 V, 60 Hz, 7 A (DTS-100A)
	230 V, 50/60hz, 3 A (DTS-60AF)	230 V, 50/60hz, 3 A (DTS-100AF)
Output:	0-60 kVac, 800 VA resistive load	0-100 kVac, 800 VA resistive load
Optional Test Cells:	TCD-3 for ASTM D877, TCD-5 for ASTM	TCD-N3 for ASTM D877, TCD-N5 for ASTM
(Sold Seperately)	D1816, TCD-I2 for IEC 156	D1816, TCD-NI2 for IEC 156
Controls	12 pre-programmed test sequences / User	10 pre-programmed test sequences / Use
	programmable test routines. 128 x 64 dot	programmable test routines. 128 x 64 dot
	matrix crystal display / Intuitive, easy to	matrix crystal display / Intuitive, easy to
	use controls in English, German, Spanish,	use controls in English, German, Spanish,
	French, Greek / Thermal printer	French, Greek / Thermal printer
Size & Weight:	14.75 x 14 x 11.5 in., 60lb	18.5 × 16.5 × 16.5 in., 100lb
	375 x 356 x 291 mm, 27kG	470 x 419 x 419 mm, 45kG
Output Termination:	Dual capacitively graded bushings in test	Dual capacitively graded bushings in test
	chamber	chamber







hvinc.com

31 County Rt. 7A · Copake, NY 12516

phone: 518.329.3275



fax: 518.329.3271



email: sales@hvinc.com

© COPYRIGHT 2018 - HIGH VOLTAGE, INC. - Manufacturers of high voltage test equipment. Products include portable VLF AC .1Hz to portable switchgear and bottle testers up to 100 kV AC; Portable DC Hipots/Megohmmeters to 300 kV DC; Oil Test sets at 60 kV or 100 kV; Aerial lift and bucket truck testers to 300 kV AC; High Power AC Dielectric test sets up to 300 kV AC @ 40 KVA; OHM Check concentric neutral tester; Controlled energy cable fault locators, Radar and Tracing devices; 150 kV and 300 kV HV voltage divders. DTS-BR-V3-04/2020-TC