Model 5500DT and 5560DT Functional Specifications

DIELECTRIC WITHSTAND TEST MODE

Unless otherwise stated, accuracies are relative to a laboratory standard measurement.

Descriptions	Specifications
INPUT VOLTAGE	115 / 230V selectable, ± 15 % variation 47 - 63 Hz
FUSE	115 VAC, 230VAC -- 5A slow-blo 250VAC
OUTPUT	Rating AC 0 - 5000V, 2V / step, 20mA DC 0 - 6000V, 2V / step, 6mA (5560DT only) Regulation : ± (1 % of output + 5V)
VOLTAGE SETTING	0V - Max output rating, 10 volts/step Accuracy : ± (2 % of Setting + 5V) (relative to displayed output) Can be adjusted during operation via UP and DOWN arrow keys.
OUTPUT FREQUENCY	Model 5500DT : 50 / 60 Hz selectable 5560DT : DC and 50 / 60 Hz selectable
WAVE FORM	Sinewave, Distortion : <1 % THD
RIPPLE	< 4 % at 6KVDC / 6mA (for model 5560DT DC mode only)
DWELL TIME SETTING	0 and 0.5 - 999.9 seconds, 0.1 second / step "0" for continuous running
RAMP TIME SETTING	0 and 0.5 - 999.9 seconds, 0.1 second / step 0 setting = .2 seconds
FAILURE SETTINGS	AC mode High limit : 0.05 - 20.00 mA, 0.01 mA / step Low limit : 0.00 and 0.05 - 20.00 mA, 0.01 mA / step Accuracy : ± (2 % of setting + 0.02 mA) DC mode High limit : 0.02 - 6.00 mA, 0.01 mA / step Low limit : 0.00 and 0.02 - 6.00 mA, 0.01 mA / step Accuracy : ± (2 % of setting + 0.02 mA) Arc for AC and DC mode Sensitivity range : 0-9 Arc detection : minimum duration ≤ 10 µs

METERING	Voltmeter (4 digits) Range : AC 0.00 - 5.00 KV : DC 0.00 - 6.00 KV Resolution : 0.01 KV Accuracy : ± (2 % of reading + 10 V) Ammeter (4 digits) Range : AC 0.05 - 20.00 mA : DC 0.02 - 6.00 mA Resolution : 0.01 mA Accuracy : ± (2 % of reading + 0.02mA)
TIMER DISPLAY	Range : 0.0 - 999.9 seconds Resolution : 0.1 second Accuracy : ± (0.1 % of reading + 0.05 seconds) Ramp = 0 : 0.2 seconds
DISCHARGE TIME	≤ 200 ms
MAXIMUM CAPACITIVE LOAD DC MODE	1uF < 1KV 0.08uF < 4KV 0.75uF < 2KV 0.04uF < 5KV 0.5uF < 3KV 0.01uF < 6KV
GROUND CONTINUITY CHECK	Current : DC 0.1 A ± 0.01A, fixed Max. ground resistance : 1 Ω ± 0.1Ω, fixed
PROGRAM MEMORY	10 sets
REMOTE CONTROL AND SIGNAL OUTPUT	The following input and output signals are provide through two 9 pin D type connectors; 1. Remote control : test and reset 2. Remote recall of memory program #1, #2 and #3 3. Outputs : pass, fail and test in process
SECURITY	Password lockout capability to avoid unauthorized access to test set-up program.
LINE CORD	Detachable 7 ft. (2.13m) power cable terminated in a three prong grounding plug.
TERMINATIONS	5ft.(1.52m) high voltage and return leads (2) with clips and a standard U.S. style (NEMA 5-15) remote receptacle box for testing items terminated with a line cord. International receptacles also available.
MECHANICAL	Bench or rack mount (2U height) with tilt up front feet Dimensions: (w x h x d) 17 x 3.5 x 16.5in. (432 x 88 x 419mm) Weight: 5500DT: 20 lbs (9kgs) 5560DT: 24 lbs (11Kgs)
ENVIRONMENTAL	Operating Temperature : 32° - 113°F (0° - 45°C) Relative Humidity - 0 to 95%
CALIBRATION	Traceable to National Institute of Standards and Technology (NIST). Calibration controlled by software. Adjustments are made through front panel keypad in a restricted access calibration mode. Calibration information stored in non-volatile memory.