

2500
series

HIPOT TESTERS

The 2500 Series well known for its product reliability and ease-of-use is our entry level line of Hipot testers. Designed with microprocessor control, these cost-effective testers are ideal for production line hipot testing.

The 2500 Series features four models:

- Model 1305 3 kV AC Hipot
- Model 2510 5 kV AC Hipot
- Model 2503 5 kV DC Hipot
- Model 2550 5 kV AC/DC Hipot



- ▶ **Entry Level Production Hipot Testers**
- ▶ **Electronic Dwell Settings**
- ▶ **Adjustable Electronic Ramp Settings**
- ▶ **Optional Ground Continuity**
- ▶ **Tamper Proof Front Panel Controls**

Slaughter®

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Instruments for Electrical
Test & Measurement

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INPUT		
Voltage	115 / 230 V selectable, $\pm 15\%$ variation	
Frequency	47 – 63 Hz	
Fuse	115 VAC, 230 VAC – 2 A fast acting 250 VAC	
DIELECTRIC WITHSTAND TEST MODE		
Output Rating	1305: AC 0 – 3000 V, 5 mA	
	2510 & 2550: AC 0 – 5000 V, 10 mA	
	2503 & 2550: DC 0 – 5000 V, 3 mA	
Voltage Setting	Regulation: $\pm (1\% \text{ of output} + 5 \text{ V})$	
	2503, 2510, 2550: 0.01 kV – 5 kV	
	1305: 0.01 kV – 3.00 kV	
	Resolution: 10 V/step	
Accuracy:	$\pm (2\% \text{ of Setting} + 5 \text{ V})$ (relative to displayed output). Can be adjusted during operation via Up & Down Arrow keys.	
	Ripple 2503 & 2550: $< 5\%$ at 5 kVDC / 3 mA	
Dwell Time	2503, 2510, 2550: 0, 1 or 60, 0 for continuous running	
	1305: On, HV remains on after "TEST" button is pushed Off, HV present only when "TEST" button is pushed	
Ramp Timer	2503, 2510, 2550: 0 and 0.2 – 999.9 sec: 0.1 sec / step 0 ramp setting: 0.1 sec fixed ramp	
Pulse Mode	1305: On, Automatic reset after failure for continuous testing. (Not for Compliance Testing)	
Failure Settings	1305:	High Limit: 0.00 – 5.00 mA
		Resolution: 0.01 mA / Step
	2510 & 2550:	Accuracy: $\pm (2\% \text{ of setting} + 0.02 \text{ mA})$
		High Limit: 0.10 – 10.00 mA, 0.01 mA / step
		Resolution: 0.01 mA / Step
		Accuracy: $\pm (2\% \text{ of setting} + 0.02 \text{ mA})$
2503 & 2550:	High Limit: 0.02 – 3.00 mA	
	Resolution: 0.01 mA / Step Accuracy: $\pm (2\% \text{ of setting} + 0.02 \text{ mA})$	

DIELECTRIC WITHSTAND TEST MODE <i>continued</i>		
Metering	1305:	Voltmeter (3 digits)
		Range: AC 0.00 – 3.00 kV
		Resolution: 0.01 kV Accuracy: $\pm (2\% \text{ of reading} + 10 \text{ V})$
	2510 & 2550:	Voltmeter (4 digits)
		Range: AC 0.00 – 5.00 kV
		Resolution: 0.01 kV Accuracy: $\pm (2\% \text{ of reading} + 10 \text{ V})$
		Ammeter (4 digits)
		Range: AC 0.00 – 10.00 mA Resolution: 0.01 mA Accuracy: $\pm (2\% \text{ of reading} + 0.02 \text{ mA})$
		2503 & 2550:
	2503 & 2550:	Range: DC 0.00 – 5.00 kV
		Resolution: 0.01 kV Accuracy: $\pm (2\% \text{ of reading} + 10 \text{ V})$
		Ammeter (4 digits)
Timer Display	2503, 2510, 2550:	Range: 0.0 – 999.9 seconds
		Resolution: 0.1 second
		Accuracy: $\pm (0.1\% \text{ of reading} + 0.05 \text{ seconds})$
Discharge Time	2503 & 2550:	$\leq 300 \text{ ms}$
Maximum Capacitive Load	2503 & 2550:	1 μF < 1 kV
		0.75 μF < 2 kV
		0.5 μF < 3 kV
		0.08 μF < 4 kV 0.04 μF < 5 kV
Optional Ground Continuity Check	Current:	DC 0.1 A \pm 0.01 A, fixed
	Max Ground Resistance:	1 ohm \pm 0.1 ohm, fixed
GENERAL SPECIFICATIONS		
PLC Remote Control and Signal Output	2503, 2510, 2550:	The following input & output signals are provided through the 9 pin D type connector: 1. Remote control: test, reset & interlock. 2. Outputs: pass, fail & test in process.
		1305:
Line Cord		Detachable 7 ft. (2.13m) power cable terminated in a three prong grounding plug.
Terminations		6' (1.52m) high voltage safety retracting probe, 6' (1.52m) high voltage clip probe & 6' (1.82m) return clip lead.
Dimensions		(W X H X D) 4.75 x 5.75 x 14.50 (120 x 146 x 370 mm)
Weight	2503, 2510, 2550:	16.5 lbs. (7.5 kg)
	1305:	16.0 lbs. (7.25 kg)