



Instruments for Electrical Test & Measurement

**HIPOT**  
**GROUND BOND**  
**INSULATION RESISTANCE**  
**LINE LEAKAGE**  
**MULTI-FUNCTION ELECTRICAL SAFETY**

# 2500 Series



## Hipot testers



Our 2500 Series Hipot testers are the safest and simplest products on the market. With the most user-friendly interface available, the 2500 Series reduces the learning curve for even inexperienced operators and its portable design allows for easy deployment in the field and on the production line. Choose from a variety of models to satisfy your testing requirements.

### Relevant Applications:

- Motors
- Switches and Controls
- Manufactured / Modular Homes
- Recreational Vehicles

2503:



2510:



2525:



2550:



### 2500 Series Features:



- Portable design and user-friendly interface
- Remote Safety Interlock
- Optional Ground Continuity (2503, 2510, 2550)
- Tamper proof front panel controls

# Model 2500 Specifications

## INPUT

Voltage	2503, 2510, 2550	115 / 230 V selectable, $\pm 15\%$ variation
	2525	115 / 230V selectable, $\pm 10\%$ variation
Frequency	2503, 2510, 2550	47 – 63 Hz
	2525	50/60 Hz $\pm 5\%$
Fuse	2503, 2510, 2550	115 VAC, 230 VAC - 2 A fast acting 250 VAC
	2525	115 VAC, 230VAC – 15A fast acting 250VAC

## DIELECTRIC WITHSTAND TEST MODE

Output	2510 & 2550:	AC 0 – 5000 V, 10 mA
	2503 & 2550:	DC 0 – 5000 V, 3 mA
	2525	AC 0 – 5000V, 10V / step, 100mA
	Regulation:	$\pm (1\% \text{ of output} + 5V)$
Voltage Setting	2503, 2510, 2550:	0.01 kV – 5 kV
	Resolution:	10 volts/step
	Accuracy:	$\pm (2\% \text{ of Setting} + 5V)$ (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
	2525	0 and 0.2 – 999.9 seconds, 0.1 second / step "0" for continuous running
Ramp Timer	2503, 2510, 2550:	0 and 0.2 - 999.9 sec: 0.1 sec / step 0 ramp setting: 0.1 sec fixed ramp
Failure Settings	2510 & 2550:	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: $\pm (2\% \text{ of setting} + 0.02 \text{ mA})$
2525	High Limit: 0.00 – 99.99 mA, 0.01 mA / step	
	Low Limit: 0.00 – 99.99 mA, 0.01 mA / step (0= OFF)	
	Accuracy: $\pm (2\% \text{ of setting} + 0.02 \text{ mA})$	
Metering	2510 & 2550:	Voltmeter (4 digits)
		Range: AC 0.00 – 5.00 kV
		Resolution: 0.01 kV
		Accuracy: $\pm (2\% \text{ of reading} + 10V)$
		Ammeter (4 digits)
		Range: AC 0.00 – 10.00 mA
	2503 & 2550:	Resolution: 0.01 mA
		Accuracy: $\pm (2\% \text{ of reading} + 0.02 \text{ mA})$
		Voltmeter (4 digits)
		Range: DC 0.00 – 5.00 kV
		Resolution: 0.01 kV
		Accuracy: $\pm (2\% \text{ of reading} + 10V)$
2525	Ammeter (4 digits)	
	Range: DC 0.00 – 3.00 mA	
	Resolution: 0.01 mA	
	Accuracy: $\pm (2\% \text{ of reading} + 0.02 \text{ mA})$	
	Voltmeter (4 digits)	
	Range: AC 0.00 – 5.00 KV	
2525	Resolution: 0.01 KV	
	Accuracy: $\pm (2\% \text{ of reading} + 10V)$	
	Ammeter (4 digits)	
	Range: AC 0.00 - 99.99 mA	
	Resolution: 0.01 mA	
	Accuracy: $\pm (2\% \text{ of reading} + 0.02 \text{ mA})$	

## DIELECTRIC WITHSTAND TEST MODE Cont.

Timer Display	2503, 2510, 2550:	Range: 0.0 – 999.9 seconds
		Resolution: 0.1 second
	2525	Accuracy: $\pm (0.1\% \text{ of reading} + 0.05 \text{ sec})$
		Range: 0.0 – 999.9 seconds
Discharge Time	2503 & 2550:	Resolution: 0.1 seconds
		Accuracy: $\pm (0.1\% \text{ of reading} + 0.05 \text{ sec})$
Maximum Capacitive Load	2503 & 2550:	$\leq 300 \text{ ms}$
		1 $\mu\text{F}$ < 1 kV
		0.75 $\mu\text{F}$ < 2 kV
		0.5 $\mu\text{F}$ < 3 kV
		0.08 $\mu\text{F}$ < 4 kV
Optional Ground Continuity Check	2525	0.04 $\mu\text{F}$ < 5 kV
		Current: DC 0.1 A $\pm$ 0.01 A, fixed
		Max Ground Resistance: $1\Omega \pm 0.1 \Omega$ , 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.
		2525
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	2503, 2510, 2550:	{W X H X D} 4.75 x 5.75 x 14.50 (120 x 146 x 370 mm)
	2525	{W x H x D} 17 x 5.8 x 12 (432 x 147 x 305mm)
Weight	2503, 2510, 2550:	16.5 lbs. (7.5 kgs)
	2525	56.70 Lbs. (25.92 kgs)

Specifications subject to change without notice.

## 2525 Supplied Accessories

102-050-913	High Voltage Probe (6 ft.)
102-069-904	Return Clip (6 ft.)
102-055-913	High Voltage Clip (6 ft.)
99-10164-01	Input Power Cable (6 ft.)
99-10040-01	Interlock
99-10168-01	Fuse

## 2550, 2510 & 2503 Supplied Accessories

102-050-913	High Voltage Probe (6 ft.)
102-069-904	Return Clip (6 ft.)
102-055-913	High Voltage Clip (6 ft.)
125-013-001	Input Power Cable (6 ft.)
99-10040-01	Interlock
99-10097-01	Fuse



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