



# 290 SERIES HIPOT TESTERS



5 PROGRAMMABLE  
MEMORIES WITH 10  
OPTIONAL

EASILY AUTOMATE FOR  
DATA COLLECTION

ADVANCED SECURITY  
SETTING

TAMPER-PROOF FRONT  
PANEL CONTROLS

REDUNDANT HARDWARE  
SAFETY INTERLOCK

PORTABLE, RUGGED DESIGN

EASILY SAFEGUARD YOUR  
WORKSTATION WITH PPE  
ACCESSORIES

The **290 Series** is our most popular line of Hipot testers. These testers are designed to simplify every aspect of safety testing for operators of all comfort levels. Our **290 Series** includes the most intuitive user interface in the industry and won't take up too much space on the production line. With multiple memories and an optional USB interface, you can quickly perform tests on a variety of DUTs from the front panel or with a PC. Choose from 5 different models to satisfy your testing requirements.

	 AC Hipot	 DC Hipot	 Insulation Resistance	 Ground Continuity Check
294		•		•
295	•			•
296	•	•		•
297	•	•	•	•
298	<b>500VA</b>			•

## RELEVANT APPLICATIONS

APPLIANCE

AC/DC POWERED PRODUCTS

CABLES & COMPONENTS

LIGHTING & LED TESTING

MODULAR HOMES

MOTORS & PUMPS

## WHAT'S IN THE BOX

- 102-069-904 Return Lead 6 ft. (1.8m)
- 102-055-913 High Voltage Lead 6 ft. (1.8m)
- 125-013-001 Input Power Cable USA
- 99-10040-01 Interlock Connector

All testers come with the accessories you need to run a test right out of the box.

## OPTIONS

Description	294	295	296	297	298
Rear Outputs	•	•	•	•	•
USB Port	•	•	•	•	•
10 Memory	•	•	•	•	•
3mA Current Limit	•	•	•	•	
Pulse Mode		•			
Push to Test Mode		•			



## SERIES FEATURES



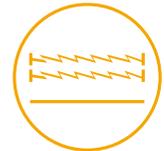
Test Setup Memories



Frequency Selection



Ramp



Dwell



Low Current Sense



Safety Agency Listed



PLC Remote



USB (optional)



On the Go Portability



Intuitive User Interface

# 290 SERIES SPECIFICATIONS

INPUT (294, 295, 296, 297, 298)	
<b>Voltage</b>	100-120 VAC / 200-240 VAC $\pm$ 10% Auto Range
<b>Frequency</b>	50/60 Hz $\pm$ 5%
<b>Fuse</b>	3.15 A / 250 VAC Fast-Blow

DIELECTRIC WITHSTAND TEST MODE	
<b>Output Rating</b>	298 AC 0-5.00 kVAC, 99.99 mA
	297 AC 0-5.00 kVAC, 12.00 mA DC 0-6.00 kVDC, 5.00 mA
	296 AC 0-5.00 kVAC, 12.00 mA DC 0-6.00 kVDC, 5.00 mA
	295 AC 0-5.00 kVAC, 12.00 mA
	294 DC 0-6.00 kVDC, 5.00 mA
<b>Voltage Setting</b>	298 0-5.00 kVAC Resolution: 0.01 kV Accuracy: $\pm$ (1.5% of setting + 5V)
	297 0-6.00 kVDC Resolution: 0.01 kV Accuracy: $\pm$ (1.5% of setting + 5V)
	296
	295
	294
<b>Output Frequency</b>	294 DC only
	295, 298 50/60 Hz Selectable
	296, 297 DC and 50/60 Hz Selectable
	Accuracy $\pm$ 0.1%
<b>AC Waveform</b>	Sine Wave, Crest Factor = 1.3 - 1.5
<b>DC Output Ripple</b>	294 <5% ( 6 kVDC / 5mA at Resistive Load)
	296
	297
<b>Dwell Timer</b>	0, 0.2 - 60 sec, (0=continuous), 0.1 sec/step
<b>Ramp Timer</b>	0.2 - 180 sec, 0.1 sec/step
<b>Leakage Failure Settings</b>	298 AC Hi-Limit: 0.10 - 99.99 mA Lo-Limit: 0 - 99.99 mA Resolution: 0.01 mA Accuracy: $\pm$ (2% of reading + 0.06 mA)
	297 AC Hi-Limit: 0.10 - 12.00 mA Lo-Limit: 0 - 12.00 mA DC Hi-Limit: 0.02 - 5.00 mA Lo-Limit: 0 - 5.00 mA
	296
	295 AC Hi-Limit: 0.10 - 12.00 mA Lo-Limit: 0 - 12.00 mA
	294 DC Hi-Limit: 0.02 - 5.0 mA Lo-Limit: 0 - 5.00 mA Resolution: 0.01 mA Accuracy: $\pm$ (2% of reading + 0.02 mA)
<b>Discharge Time</b>	< 50 msec for no load, < 100 msec for capacitive load

INSULATION RESISTANCE TEST MODE (297 only)		
<b>Output Voltage</b>	Range:	0.1-1.00 kVDC
	Resolution:	0.01 kV
	Accuracy:	$\pm$ (1.5% of setting + 3 V)
<b>Resistance Display</b>	Range:	1 - 1000 M $\Omega$
	Resolution:	1 M $\Omega$
	Accuracy:	100-499 V $\pm$ (7% of setting + 2 M $\Omega$ ) 500-1000 V $\pm$ (3% of setting + 2 M $\Omega$ )
<b>Hi-Limit</b>	Range:	0.1 - 1000 M $\Omega$ (0=off)
	Resolution:	1 M $\Omega$
<b>Lo-Limit</b>	Range:	1 - 1000 M $\Omega$
	Resolution:	1 M $\Omega$
<b>Timer</b>	Ramp:	0.1 or 2.0 sec
	Delay:	0, 0.5 - 999.9 sec, (0=continuous)

GENERAL SPECIFICATIONS		
<b>Continuity Feature</b>	Range:	0.0 - 1.50 $\Omega$
	Resolution:	0.01 $\Omega$
	Accuracy:	$\pm$ (2% of setting + 0.02 $\Omega$ )
<b>Memories</b>	5 (10 optional)	
<b>Remote I/O</b>	Input:	Test, Reset, Interlock
	Output:	Pass, Fail, Test-in-Process <b>Hardware Interlock - a relay on the high voltage output opens when the Interlock signal is disabled.</b>
<b>3mA AC/DC Current Limit (optional)</b>	294	Range: 0.00 - 3.00 mA
	295	Resolution: 0.01 mA
	296	Accuracy: $\pm$ (2% of setting + 0.02mA)
	297	
<b>Meter Max (standard)</b>	Displays the maximum voltage value recorded during a breakdown.	
<b>I<sub>max</sub> (optional)</b>	Displays the maximum leakage current value read during a test. Option 3 (USB port) must be installed to receive this measurement.	
<b>Security</b>	Option to turn On or Off, when On you can switch between two security levels:	
	<ol style="list-style-type: none"> <li>Run - Operator can only run a test. No ability to change memory locations or edit test parameters.</li> <li>Mem - Operator can run a test and change memory locations. No ability to edit test parameters.</li> </ol>	
<b>Safety Mark</b>	CE/CTUVus	
<b>Dimensions (W x H x D)</b>	294, 295 296, 297	8.5" x 3.5" x 11.9" (215 x 88.1 x 300 mm)
	298	16.93" x 5.20" x 11.84" (430 x 132 x 300 mm)
<b>Weight</b>	294, 295 296, 297	12 lbs (5.46 Kg)
	298	46 lbs (20.86 Kg)

Specifications subject to change without notice.