



# 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

02100A-13	Return Lead 6 ft. (1.8m)
04040A-08	High Voltage Lead 6 ft. (1.8m)
33189	Input Power Cable USA
38075	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		•			



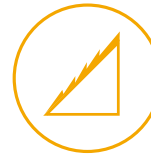
## SERIES FEATURES



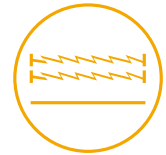
Test Setup  
Memories



Frequency  
Selection



Ramp



Dwell



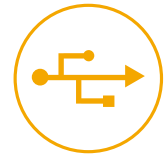
Low Current  
Sense



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

Output Rating	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
Voltage Setting	298	0-5.00 kVAC
	297	Resolution: 0.01 kV
	296	Accuracy: ± (1.5% of setting + 5V)
	295	
	297	0-6.00 kVDC
	296	Resolution: 0.01 kV
	294	Accuracy: ± (1.5% of setting + 5V)
Output Frequency	294	DC only
	295, 298	50/60 Hz Selectable
	296, 297	DC and 50/60 Hz Selectable
	Accuracy	± 0.1%
AC Waveform	Sine Wave, Crest Factor = 1.3 - 1.5	
DC Output Ripple	294	<5% ( 6 kVDC / 5mA at Resistive Load)
	296	
	297	
Dwell Timer	0, 0.2 - 60 sec, (0=continuous), 0.1 sec/step	
Ramp Timer	0.2 - 180 sec, 0.1 sec/step	
Leakage Failure Settings	298	AC Hi-Limit: 0.10 - 99.99 mA Lo-Limit: 0 - 99.99 mA
		Resolution: 0.01 mA
		Accuracy: ± (2% of reading + 0.06 mA)
	297	AC Hi-Limit: 0.10 - 12.00 mA
	296	Lo-Limit: 0 - 12.00 mA DC Hi-Limit: 0.02 - 5.00 mA Lo-Limit: 0 - 5.00 mA
	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: ± (2% of reading + 0.02 mA)
Discharge Time	< 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><u>Hardware Interlock - a relay on the high voltage output opens when the Interlock signal is disabled.</u></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>Imax (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:	
	1. Run - Operator can only run a test. No ability to change memory locations or edit test parameters.	
	2. Mem - Operator can run a test and change memory locations. No ability to edit test parameters.	
<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.