

6000 SERIES

6-IN-1 ELECTRICAL SAFETY TESTERS



VERSATILE 6-IN-1 FUNCTIONALITY

20 PROGRAMMABLE
MEMORIES WITH 10 TEST
STEPS EACH

4 BUILT-IN
NRTL-COMPLIANT
MEASURING DEVICES

EASILY AUTOMATE FOR
DATA COLLECTION

REMOTE SAFETY
INTERLOCK

EASILY SAFEGUARD YOUR
WORKSTATION WITH PPE
ACCESSORIES

The **6330** is our most advanced multi-function electrical safety tester with 6-in-1 test capability. Our flagship model is designed to make advanced testing applications simple with the most feature rich menu system on the market. With minimal set-up time, you can perform AC Hipot, DC Hipot, Insulation Resistance, Ground Bond, Leakage Current and Functional Run tests on a variety of DUT's. The **6330** maximizes production line throughput far beyond a single function tester, while taking up less space. Use the **6330** from the front panel or automate your testing via the RS-232 interface.



AC Hipot



DC Hipot



Insulation
Resistance



30A
Ground
Bond



Leakage
Current



Functional
Run

6330

RELEVANT APPLICATIONS

APPLIANCE

INFORMATION TECHNOLOGY

MEDICAL

SUPPLIED ACCESSORIES

- 102-055-913 High Voltage Lead 6 ft. (1.8m)
- 102-013-001 Input Power Cable USA
- 99-10457-01 40 Amp High Current Return Lead 10 ft. (3m)
- 99-10468-01 40 Amp High Current Lead 10 ft. (3m)
- 99-10009-01 30 Amp High Current Return Lead 6 ft. (1.8m)
- 99-10008-01 30 Amp High Current Lead 6 ft. (1.8m)
- 99-10469-01 Black DUT Input Line Test Lead
- 99-10470-01 Black DUT Input Neutral Test Lead
- 99-10471-01 White DUT Output Line Test Lead
- 99-10472-01 White DUT Output Neutral Test Lead
- 99-10040-01 Interlock Connector
- 99-10467-01 Adapter Box Universal US 10 ft. (3m)
- 99-10106-01 Fuse

OPTIONS

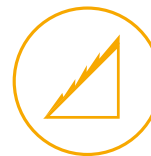
SERIES FEATURES



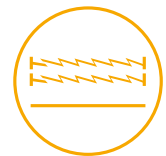
Test Setup Memories



Frequency Selection



Ramp



Dwell



Low Current Sense



Safety Agency Listed



PLC Remote



RS-232

Description	6330
Rack Mount Hardware	●



6000 SERIES SPECIFICATIONS

INPUT

Voltage	115 / 230 V selectable, $\pm 10\%$ variation
Frequency	50/60 Hz $\pm 5\%$
Fuse	6.3 A slow blow 250 VAC

DIELECTRIC WITHSTAND TEST MODE

Output Rating	3.5 kV @ 30 mAAC 4.0 kV @ 5 mADC			
Voltage Setting	Range:	0 - 3.50 kVAC 0 - 4.00 kVDC		
	Resolution:	0.01 kV		
	Accuracy:	$\pm (2\% \text{ of setting} + 5 \text{ V})$		
Current Display	Range:	0 - 30.00 mAAC 0 - 5.00 mADC		
	Resolution:	0.01 mA		
	Accuracy:	$\pm (2\% \text{ of reading} + 0.02 \text{ mA})$		
HI-Limit LO-Limit	AC	Range: 0 - 30.00 mA Accuracy: $\pm (2\% \text{ of setting} + 0.02 \text{ mA})$		
	DC	Range: 0-5.00 mA Accuracy: $\pm (2\% \text{ of setting} + 0.02 \text{ mA})$		
Failure Detector	Audible and Visual			
DC Output Ripple	5% Ripple RMS at 4 kVDC @ 5 mA, resistive load			
Discharge Time	$\leq 200\text{ms}$			
Max. Capacitive Load in DC Mode	1.00 μF	< 1 kV	0.50 μF	< 3 kV
	0.75 μF	< 2 kV	0.08 μF	< 4 kV
AC Waveform	Sine Wave, Crest Factor = 1.3 - 1.5			
AC Output Frequency	Range:	50/60 Hz, user selection		
Output Regulation	$\pm (1\% \text{ of setting} + 5 \text{ V})$ from no load to full load			
Dwell Timer	Range:	0, 0.2 - 999.9 sec, (0 = continuous)		
Ramp Timer	Range:	0.1 - 999.9 sec		

INSULATION RESISTANCE TEST MODE

Output Voltage	Range:	100 - 1000 VDC		
	Accuracy:	$\pm (2\% \text{ of reading} + 5 \text{ V})$		
Resistance Display	Range:	1 - 1000 M Ω (4 digit, auto ranging)		
		500 VDC	1000 VDC	
		M Ω	M Ω	M Ω
	Resolution:	0.01	1.00 - 40.00	1.00 - 80.00
		0.1	35.0 - 999.9	75.0 - 999.9
HI-Limit/LO-Limit	Range:	1 - 1000 M Ω (0 = off)		
Delay Timer	Range:	0, 0.5 - 999.9 sec, (0 = continuous)		

GROUND BOND TEST MODE

Output Voltage	Range:	6 VAC fixed		
Output Frequency	Range:	50/60 Hz, user selectable		
Output Current	Range:	3.0 - 30.0 AAC		
Current Display	Range:	0.0 - 30.0 A		
HI-Limit LO-Limit	Range:	0 - 510 m Ω for 3.0 - 10.0 A 0 - 200 m Ω for 10.1 - 25.0 A 0 - 150 m Ω for 25.1 - 30.0 A		
	Accuracy:	$\pm (2\% \text{ of setting} + 2 \text{ m}\Omega)$		
Dwell Timer	Range:	0, 0.5 - 999.9 sec, (0 = continuous)		
Milliohm Offset	Range:	0 - 100 m Ω		
	Accuracy:	$\pm (2\% \text{ of setting} + 2 \text{ m}\Omega)$		

RUN TEST MODE

DUT Power	Voltage:	0 - 277 VAC Single Phase Unbalanced	
	Current:	30 AAC max continuous	
Voltage Display	Range:	0 - 277.0 VAC Full Scale	
Short Circuit Protection	Short circuit current 50 A < 3 s Inrush current 180 A Response time 10 μs		
Delay Timer	Range:	0.2 - 999.9 seconds	
Dwell Timer	Range:	0, 0.1 - 999.9 seconds (0 = continuous)	
Timer Display	Range:	0 - 999.9 seconds	
Voltage	Range:	0 - 277.0 VAC	
Current	Range:	0 - 30.0 AAC	
Watts	Range:	0 - 8400 W	
Power Factor	Range:	0 - 1.000	
Leakage Current	Range:	0 - 10.00 mA (0 = off)	
	Leakage current measuring resistor MD=2K Ω $\pm 1\%$		

LEAKAGE CURRENT TEST MODE

DUT Power	Voltage:	0 - 277 VAC Single Phase Unbalanced	
	Current:	0 - 30 A maximum 30 AAC max continuous	
Voltage Display	Range:	0 - 277.0 VAC Full Scale	
Short Circuit Protection	Short circuit current 50 A < 3s Inrush current 180 A Response time 10 μs		
Leakage Current (RMS Only)	Range:	0 μA - 6000 μA	
	Accuracy:	DC, 15 to 100 kHz $\pm (2\% \text{ of reading} + 3 \mu\text{A})$ > 100 k to 1 MHz $\pm 5\%$ of reading	
Measuring Device	A	UL544 Non Patient	
	B	IEC60990 Fig4-U2	
	C	UL2601-1, UL60601-1	
	F	Frequency Check, External MD (1k Ω)	
	X	External MD (1k Ω)	
Line Condition	Neutral, Reverse, Ground		
Probe	G - L		
HI-Limit/LO-Limit	Range:	0 - 6000 μA	
Delay Timer	Range:	0, 1.0 - 999.9 sec, (0 = continuous)	

GENERAL SPECIFICATIONS

Memories	20 memories with 10 steps per memory		
Remote I/O	Input:	Test, Reset, Interlock & recall memory 1-6	
	Output:	Pass, Fail, Test-In-Process	
Interface	RS-232 interface		
Security	Key lock and memory lock capability to avoid unauthorized access		
Terminations	6' (1.80 m) high voltage and (2) return leads w/ clips		
Calibration	Software & adjustments made through front panel		
Mechanical	Bench or rack mount with tilt up front feet		
Environmental	Operating Temperature: 32 $^{\circ}$ - 104 $^{\circ}$ F (0 $^{\circ}$ - 40 $^{\circ}$ C) Relative Humidity: 20 - 80%		
Dimension (W x H x D)	16.9" x 5.2" x 19.6" (430 x 133 x 500 mm)		
Weight	48.5 lbs. (22 kg)		