

Ethernet, RS-232 or GPIB automation interfaces available. Use your own software or our

Data Storage card available for storing and transferring test data without a connection to a PC

- Graphic LCD and intuitive menu system to simplify the entire testing process from set-up to results
- 50 memories with 30 steps per memory that can be stored and recalled in any alphanumeric combination
- Real current measurement allows operators to monitor total and real current on
- Advanced functionality available with an optional 4 or 8 port



1.800.858.TEST [8378]

## <mark>HYPOTULTRA</mark>® Ш

## At Associated Research, Safety Compliance Testing Is Our Only Focus.

Input Specifications				INSULATION RESISTANCE TEST MODE, MODEL 7650 ONLY					
Voltage	115 / 230 VAC ±	10%, Automa	atically Selected	Output Voltage	Range:	50 - 1000 Volts	S DC		
Frequency	50/60 Hz ± 5%			Short Circuit Current	Maximum:	12mA peak			
Fuse	4 Amp 250V Slo-Blo			Resistance Display	Range: Resolution:	0.05MΩ - 50000 MΩ (5 Digit, Auto Rangir 500VDC 1000VDC			
DIELECTRIC WITHSTAND TEST MODE					MΩ MΩ 0.001 0.050	MΩ ) - 9.999	MΩ 0.100 - 9.999		
Output Rating	5 KV @ 30 mA AC 5 KV @ 10 mA DC	for 7650 on	ly			0.01 1.00 0.1 10.0 1 100	- 99.99 - 999.9 - 50000	99.99         1.00 - 99.99           999.9         10.0 - 999.9           50000         100 - 50000	
Ramp-HI	12mA peak maximum, ON/OFF selectable			Charge-LO	Range:	0.000 - 3.500µA or Auto Set			
Charge-L0	Range:	0.0 - 350.0	μΑ DC or Auto set	Maximum and					
Maximum & Minimum Limits				Minimum Limits	Range: (Max Limit:	0.0, 0.05M $\Omega$ - 50000M $\Omega$ 0 = 0FF)			
AC Total	Range: Accuracy:	0.000 - 30 ± (2% of se	.00mA etting + 2 counts)	Ramp Timer	Range:	Ramp-Up: Ramp-Down:	0.1 - 999 0.0, 1.0	).9 sec - 999.9 sec	
AC Real	Range:	0.000 - 30	.00mA etting + 0.05mA) All Ranges C	Delay Timer	Range:	0.0, 1.0 - 999.9 sec 0 = Continuous			
	Accuracy:	± (3% of se PF > 0.1 V > 250VA		Ground Fault Interrupt	GFI Trip Curr HV Shut Dow	n Speed: 450 μA max			
DC	Range: Accuracy:	0.0 - 1000 ± (2% of se	0μA for 7650 only etting + 2 counts)		T MODE				
Arc Detection	Range:	1 - 9		Output Current	DC 0.1A ± 0	$ \begin{array}{llllllllllllllllllllllllllllllllllll$			
Voltage Display	Range: Accuracy:	0.00 - 5.00 ± (2% of se	) KV Full Scale etting + 2 counts)		DC 0.01A ±				
Current Display	Auto Range			Resistance Display	Range:	0.00 - 2000 12			
AC Total	Range: Accuracy:	0.000mA - ± (2% of re	30.00mA eading + 2 counts)	Maximum and Minimum Limits	Range: (Max Limit:	0.00 - 2000 Ω 0 = OFF)			
AC Real	Range :	0.000mA -	30.00mA	Dwell Timer	Range:	0.0, 0.3 - 999.9 sec (0 = Continuous)			
	Accuracy:	± (3% of re PF > 0.1 V > 250VA	ading + 0.05mA) All Ranges C	Milliohm Offset	Range:	0.00 - 10.00Ω			
DC	Range: Accuracy:	99mA for 7650 only ading + 2 counts)	GENERAL SPECIFIC	CIFICATIONS					
DC Output Ripple	≤ 4% Ripple RMS at 5 KV DC @ 10 mA, Resistive Load		PLC Remote Control	Input:	Iest, Reset, Interlock, Recall Memory 1 through 10				
Discharge Time	≤ 200 ms				Output:	Pass, Fail, Test-in-Process, Reset			
Maximum Capacitive 1uF< 1KV		0.08uF< 4KV		Safety	Built-in Smar	uilt-in Smart GFI circuit			
Load in DC Mode	0.75uF-< 2KV		0.04uF< 5KV	Memory	50 memories	memories, 30 steps/memory			
AC Output Wave Form	Sine Wave, Crest Factor = 1.3 - 1.5			Interface	Standard RS or Printer Po	tandard RS-232, Optional Ethernet, GPIB, Data Storage, r Printer Port with Date and Time Stamp.			
Output Frequency	Range:         60 or 50 Hz, User Selection           Accuracy:         ± 0.1%		Security	Programmab unauthorized	ogrammable password lockout capability to avoid authorized access to test set-up program.				
Output Regulation	$\pm$ (1 % of output + 5 V) From no load to full load and over input voltage range			Graphic Display	240 x 64 dot resolution. Monographic LCD				
Dwell Timer	Range: 0.0, 0.4 - 999.9 sec (0 = Continuous)		Campración	Built-in Verification program. Automatic Calibration alert					
Ramp Timer	Range: Ramp-l Ramp-l	Jp: Down:	0.1 - 999.9 sec AC 0.0 - 999.9 sec DC 0.0, 1.0 - 999.9 sec 0.0=OFF	Mechanical	function to signal operator when calibration is due. Bench or rack mount (2U height) with tilt up front feet Dimensions:(w x h x d) 16.92x3.50x15.75in (430x89x400mm)				
Ground Continuity	Current: Max. ground resist	tance:	DC 0.1 A $\pm$ 0.01A, fixed 1 $\Omega$ $\pm$ 0.1\Omega, fixed	Weight	31.38 Lbs (1	14.23 kgs) variable with options			
Ground Fault Interrupt	GFI Trip Current: HV Shut Down Spe	450 µ eed: < 1m	ıA max (AC or DC) s	Specifications subject to change without notice.					

Customer support & technical services
S-Year extended warranty\*
24-Hour turn-around on calibrations
Industry seminars, expert training & education programs
Local sales offices throughout the world
\*Wth annual calibration from Associated Research.

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