

Input Specifications

Voltage	115 / 230 VAC ± 10%, Automatically Selected
Frequency	50/60 Hz ± 5%
Fuse	4 Amp 250V Slo-Blow

DIELECTRIC WITHSTAND TEST MODE

Output Rating	5 KV @ 30 mA AC 5 KV @ 10 mA DC for 7650 only
Ramp-HI	12mA peak maximum, ON/OFF selectable
Charge-LO	Range: 0.0 - 350.0 µA DC or Auto set
Maximum & Minimum Limits	
AC Total	Range: 0.000 - 30.00mA Accuracy: ± (2% of setting + 2 counts)
AC Real	Range: 0.000 - 30.00mA Accuracy: ± (3% of setting + 0.05mA) All Ranges PF > 0.1 V > 250VAC
DC	Range: 0.0 - 10000µA for 7650 only Accuracy: ± (2% of setting + 2 counts)
Arc Detection	Range: 1 - 9
Voltage Display	Range: 0.00 - 5.00 KV Full Scale Accuracy: ± (2% of setting + 2 counts)
Current Display	Auto Range
AC Total	Range: 0.000mA - 30.00mA Accuracy: ± (2% of reading + 2 counts)
AC Real	Range: 0.000mA - 30.00mA Accuracy: ± (3% of reading + 0.05mA) All Ranges PF > 0.1 V > 250VAC
DC	Range: 0.0 µA - 9.99mA for 7650 only Accuracy: ± (2% of reading + 2 counts)
DC Output Ripple	≤ 4% Ripple RMS at 5 KV DC @ 10 mA, Resistive Load
Discharge Time	≤ 200 ms
Maximum Capacitive Load in DC Mode	1µF—< 1KV 0.08µF—< 4KV 0.75µF—< 2KV 0.04µF—< 5KV 0.5µF—< 3KV
AC Output Wave Form	Sine Wave, Crest Factor = 1.3 - 1.5
Output Frequency	Range: 60 or 50 Hz, User Selection Accuracy: ± 0.1%
Output Regulation	± (1 % of output + 5 V) From no load to full load and over input voltage range
Dwell Timer	Range: 0.0, 0.4 - 999.9 sec (0 = Continuous)
Ramp Timer	Range: Ramp-Up: 0.1 - 999.9 sec AC 0.0 - 999.9 sec DC 0.0, 1.0 - 999.9 sec 0.0=OFF
Ground Continuity	Current: DC 0.1 A ± 0.01A, fixed Max. ground resistance: 1 Ω ± 0.1Ω, fixed
Ground Fault Interrupt	GFI Trip Current: 450 µA max (AC or DC) HV Shut Down Speed: < 1ms

INSULATION RESISTANCE TEST MODE, MODEL 7650 ONLY

Output Voltage	Range: 50 - 1000 Volts DC
Short Circuit Current	Maximum: 12mA peak
Resistance Display	Range: 0.05MΩ - 50000 MΩ (5 Digit, Auto Ranging) Resolution: 500VDC 1000VDC
	MΩ MΩ MΩ
	0.001 0.050 - 9.999 0.100 - 9.999
	0.01 1.00 - 99.99 1.00 - 99.99
	0.1 10.0 - 999.9 10.0 - 999.9
	1 100 - 50000 100 - 50000
Charge-LO	Range: 0.000 - 3.500µA or Auto Set
Maximum and Minimum Limits	Range: 0.0, 0.05MΩ - 50000MΩ (Max Limit: 0 = OFF)
Ramp Timer	Range: Ramp-Up: 0.1 - 999.9 sec Ramp-Down: 0.0, 1.0 - 999.9 sec
Delay Timer	Range: 0.0, 1.0 - 999.9 sec 0 = Continuous
Ground Fault Interrupt	GFI Trip Current: 450 µA max HV Shut Down Speed: < 1ms

CONTINUITY TEST MODE

Output Current	DC 0.1A ± 0.01A Total Resistance*: 0.00-33.0 Ω DC 0.01A ± 0.001A Total Resistance*: 31.0-330 Ω DC 0.001A ± 0.0001A Total Resistance*: 310-2000 Ω
Resistance Display	Range: 0.00 - 2000 Ω
Maximum and Minimum Limits	Range: 0.00 - 2000 Ω (Max Limit: 0 = OFF)
Dwell Timer	Range: 0.0, 0.3 - 999.9 sec (0 = Continuous)
Milliohm Offset	Range: 0.00 - 10.00Ω

GENERAL SPECIFICATIONS

PLC Remote Control	Input: Test, Reset, Interlock, Recall Memory 1 through 10 Output: Pass, Fail, Test-in-Process, Reset
Safety	Built-in Smart GFI circuit
Memory	50 memories, 30 steps/memory
Interface	Standard RS-232, Optional Ethernet, GPIB, Data Storage, or Printer Port with Date and Time Stamp.
Security	Programmable password lockout capability to avoid unauthorized access to test set-up program.
Graphic Display	240 x 64 dot resolution. Monographic LCD
Calibration	Adjustments are made through the front panel. Built-in Verification program. Automatic Calibration alert function to signal operator when calibration is due.
Mechanical	Bench or rack mount (2U height) with tilt up front feet Dimensions:(w x h x d) 16.92x3.50x15.75in (430x89x400mm)
Weight	31.38 Lbs (14.23 kgs) variable with options

Specifications subject to change without notice.

CalPower Srl

Via Acquanera, 29 • 22100 COMO • ITALY
Tel.: +39-031526566 • Fax: +39-031507984
E-Mail: info@calpower.it • http://www.calpower.it

• All technical modifications reserved. Without engagement

- Customer support & technical services
- 5-Year extended warranty*
- 24-Hour turn-around on calibrations
- Industry seminars, expert training & education programs
- Local sales offices throughout the world

*With annual calibration from Associated Research.

