



Continuous to test currents of 35 Amps
Derate linearly to 50% duty cycle at 60 Amps
Maximum Cycle Period: 35 to 60 Amps: 4 Minutes

Maximum allowed common mode voltage to ground: 50 Vrms, 71 Vpeak or dc

Maximum normal mode open circuit probe source voltage (at 132 Vrms line voltage): 8.6 Vrms, 12.1 Vpeak

Input Power Requirements:

90 to 132 Volts rms
48 to 66 Hertz sine wave
Maximum Power: 396 Watts (3.0 Arms at 132 Vrms)

Check Resistor:

Resistance: 100 milliohms \pm 1%
Maximum continuous current: 17.5 Amps

Verification Schedule:

There are no hardware calibration adjustments, and thus no hardware calibration is required or possible. Software calibration data is available, but it's normally unnecessary to modify this data. Complete the formal performance verification procedure annually or following any repair service.

Safety Certification: Designed and manufactured to meet or exceed UL 3111. Instruments manufactured before 1 January 2008 were so listed by ETL.

Environmental:

Operating Temperature Range: 5 to 40°C
Relative Humidity Range: 0 to 90% non-condensing

Physical:

Mass: 7.7 kilograms (Weight: 17 pounds) {Including two probes}

Overall Dimensions:

Height: 10.92 centimeters (4.30 inches)
Width: 21.15 centimeters (8.33 inches)
Depth: 26.0 centimeters (10.24 inches)

Probe Length, Each Side:

Standard: 1.5 Meters (4.9 feet)
Maximum: 51.0 Meters (167.2 feet) at 50 Amps, 85.0 Meters (278.7 feet) at 40 Amps

Note 1: Impedance accuracy is specified only when the test current is $> 500\mu$ divided by impedance in Ohms and > 30 mA.

Note 2: Figures exclude contact impedance which adds approximately 1 milliohm with sound double alligator clip type probe connections, and approximately 2 milliohm with one alligator clip and one power connector type probe connections. If the Model 109 Kelvin sense probes are utilized, contact impedance is eliminated.

Note 3: The measurement circuits are broad ranged, but the instrument should not be operated beyond the maximum current limit of 60 Amps or the specified duty cycle limits due to thermal limitations of certain power components.

Models 308 and 309 Specifications V1.34 , 17 January 2008

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