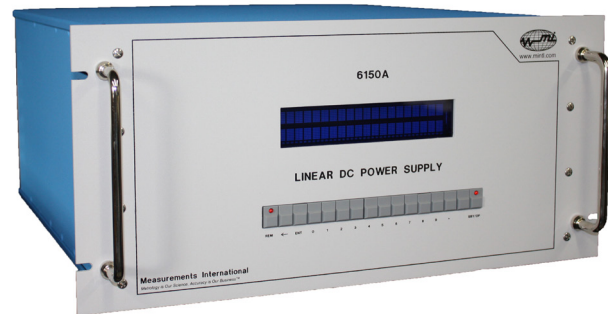




**AUTOMATED 150 AMP  
DC CURRENT SOURCE**

- Linear Technology
- Capable of Driving Inductive Loads
- Improved Settling Time
- Two Current Ranges
- IEEE-488 Interface

**MODEL 6150A**



**MODEL 6150A AUTOMATED 150 AMP DC CURRENT SOURCE**

The model 6150A has been designed as a very stable DC linear supply for use with the MI Resistance and Shunt Measurement Systems (6010/6011/6012M/6013M). The model 6150A offers several improvements over existing switched power supplies in both speed and accuracy, when measuring resistive, capacitive and inductive loads.

The 6150A offers two current ranges, 5 Amps and 150 Amps. The 5 Amp range allows the 6150A to supply precision currents below 1 ampere.

This current source utilizes transconductance amplifier technology as a voltage to current converter; its accuracy is dependent on precision current shunts developed by Measurements International. The power supply approaches an ideal current source for the applied load with its extremely high loop gain and high output resistance. Flat bandwidth is inherent to the design of this instrument.

The 6150A will supply precise current to any load impedance whose compliance voltage is within the output voltage limits of the power amplifier. Once the voltage compliance is exceeded, the power supply returns to standby. The compliance voltage is monitored and displayed on the front panel display. The STANDBY circuit that is operated from the front panel STANDBY/OPERATE switch may be operated remotely, however, the front panel switch can always override it. The STANDBY mode disables the output current.

A large vacuum fluorescent display is used to indicate the current and compliance voltage. The keyboard located on the front panel is used to enter data and configure the output of the 6150A. Both the compliance voltage and current can be read over the IEEE-488 interface bus.





## MODEL 6150A AUTOMATED 150 AMP DC CURRENT SOURCE

### Specifications: Rev 1

<b>Ranges</b>	0 to 5 Amps DC 5 to 150 Amps DC
<b>Stability</b>	± 100 ppm of Range + 1-bit for 8 Hours
<b>Accuracy</b>	± 1.0 %
<b>Voltage Compliance</b>	4.2 Volts
<b>Resolution</b>	16-bit
<b>Noise</b>	< 1.5 mA + 0.04 % of Output
<b>DC Offset</b>	< 5 mA
<b>Operating Environment</b>	18 to 34 °C, 10 to 80 % RH
<b>Warranty</b>	1 Year Parts & Labour

#### How to Order

Model: 6150A  
Automated 150 Amp DC Current Source

#### Accessories:

**Note:** It is recommended that each supply is supplied from its' own 20 A circuit.

#### Dimensions (L × W × H):

545 (21 in) × 435 (17 in) × 221 (8.7 in) (mm)

#### Weight:

29 kg

#### Shipping Weight:

35 kg

#### Main Power:

100, 120, 220, 240 V - 50/60 Hz

#### Corporate Headquarters

**Measurements International**  
PO Box 2359, 118 Commerce Drive  
Prescott, Ontario, Canada K0E 1T0  
Phone: 613-925-5934  
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