

TABLE 1. ELECTRICAL SPECIFICATIONS	
Parameter	Value
Output	0 to 20 volts DC, continuously adjustable, 0 to 500 milliamperes
Input	105 to 125 volts, 50 to 440 Hz, 40 watts (nominal) Regulation DC voltage change less than 100 microvolts for line variations of $\pm 10\%$ or load variations of 100% (at sense lead connection points)
Ripple and Noise	Less than 100 microvolts peak-to-peak
Source Impedance	Less than 0.2 milliohm at DC, 0.04 ohm at 20 KHz, 0.5 ohm at 1 MHz
Recovery Time	Less than 10 microseconds to return to within 250 microvolts or 0.005% (whichever is greater) of the set voltage for a step change in rated load (1 microsecond rise time) of 10% to 100% or 100% to 10%; less than 40 microseconds to return to within 100 microvolts
Stability	Better than 0.001% +100 microvolts per 8 hours; better than 1 millivolt per week (at constant line, load and ambient temperature after warm-up).
Temperature Coefficient	DC output voltage change less than 0.001% or 50 microvolts (whichever is

	greater) per °C over the range of +15 °C to +45 °C, less than 0.002% or 100 microvolts (whichever is greater) per °C from °C from 0 °C to +15°C and from +45 °C to +60 °C
Calibration Accuracy	Better than 0.1% +1 millivolt
Current Limiting	0 to 500 milliamperes continuously adjustable by a front panel control. A front panel push button permits easy adjustment without shorting the output terminals.
Output Terminals	
Front Panel	Three insulated binding posts for positive output, negative output, and chassis ground
Rear Panel	Screw terminals on a molded barrier block for positive output, negative output, chassis ground, remote voltage programming and remote sensing.
Remote Sensing	Two terminals are provided on a rear panel barrier block for remote sensing of the voltage at the load.
Parameter	Specifications
Remote Programming	Rear panel barrier block terminals are provided for remote programming of the output voltage. The ratio of the programming resistance to the output voltage is 1000 ohms per volt. The

	programming accuracy is better than 0.01% of the resistance value, including the resistance of the programming leads.
Metering	Front panel volt--ammeter permits monitoring output voltage or current with an accuracy of $\pm 2\%$ of full scale. NOTE: This accuracy is considerably less than that of the power source.
Circuit Protection	The AC line and DC load circuits are separately fused. The fuses are accessible at the rear of the unit.
Indicator Lamps	
AC Lamp	Lights when AC toggle switch is set to ON and power is applied to the unit.
OVEN Lamp	Lights when AC input is applied and oven heater is energized (operates even when AC toggle switch is turned off). Lamp cycles on and off as oven maintains constant temperature environment for critical components.
+10 V Lamp	Lights when RANGE switch is set to 10--20V position to indicate that output is 10 volts plus the dial readout.

Mechanical Specifications

- Dimensions : 8-3/8 inches wide by 4-3/4 inches high by 8-15/16 inches deep behind the front panel.
- Weight : 9 pounds.
- Finish : The panel is finished in brushed aluminum and has etched black lettering. The housing is finished in blue-gray vinyl enamel. The chassis and bottom plate are gold iridite.