

TABLE 1. ELECTRICAL SPECIFICATIONS

<u>Parameter</u>	<u>Value</u>
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 micro- seconds 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 $^{\circ}\text{C}$ over the range of $+15^{\circ}\text{C}$ to $+45^{\circ}\text{C}$, less than 0.002% or 100 microvolts (whichever is greater) per $^{\circ}\text{C}$ from 0°C to $+15^{\circ}\text{C}$ and from $+45^{\circ}\text{C}$ to $+60^{\circ}\text{C}$
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.