

Table 1-1. Specifications

**INPUT:**

105-125 VAC, single phase, 50-60Hz,  
5.5A, 320W.

**OUTPUT:**

0-20 volts @ 0-10 amps.

**LOAD REGULATION:**

Constant Voltage -- Less than 0.01% plus 1mV for a full load to no load change in output current.

Constant Current -- Less than 0.05% plus 1mA for a zero to maximum change in output voltage.

**LINE REGULATION:**

Constant Voltage -- Less than 0.01% plus 1mV for any line voltage change within the input rating.

Constant Current -- Less than 0.05% plus 1mA for any line voltage change within the input rating.

**RIPPLE AND NOISE:**

Constant Voltage -- Less than 500 $\mu$ V rms.

Constant Current -- Less than 5mA rms.

**OPERATING TEMPERATURE RANGES:**

Operating: 0 to 50°C. Storage: -20 to +85°C.

**TEMPERATURE COEFFICIENT:**

Constant Voltage -- Less than 0.02% plus 500 $\mu$ V per degree Centigrade.

Constant Current -- Less than 0.02% plus 5mA per degree Centigrade.

**STABILITY:**

Constant Voltage -- Less than 0.10% plus 2.5mV total drift for 8 hours after an initial warm-up time of 30 minutes at constant ambient, constant line voltage, and constant load.

Constant Current -- Less than 0.10% plus 25mA total drift for 8 hours after an initial warm-up time of 30 minutes at constant ambient, constant line voltage, and constant load.

**INTERNAL IMPEDANCE AS A CONSTANT VOLTAGE SOURCE:**

Less than 0.001 ohm from DC to 100Hz.

Less than 0.01 ohm from 100Hz to 1kHz.

Less than 0.2 ohm from 1kHz to 100kHz.

Less than 2.0 ohms from 100 kHz to 1 MHz.

**TRANSIENT RECOVERY TIME:**

Less than 50 $\mu$ sec for output recovery to within 15 mv following a current change in the output equal to the current rating of the supply or 5 amperes, whichever is smaller.

**OVERLOAD PROTECTION:**

A continuously acting constant current circuit protects the power supply for all overloads

including a direct short placed across the terminals in constant voltage operation. The constant voltage circuit limits the output voltage in the constant current mode of operation.

**METER:**

The front panel meter can be used as either a 0-24 or 0-2.4 volt voltmeter or as a 0-12 or 0-1.2 amp ammeter.

**OUTPUT CONTROLS:**

Coarse and fine voltage controls and coarse and fine current controls provide continuous adjustment over the entire output span.

**OUTPUT TERMINALS:**

Three "five-way" output posts are provided on the front panel and an output terminal strip is located on the rear of the chassis. All power supply output terminals are isolated from the chassis and either the positive or negative terminal may be connected to the chassis through a separate ground terminal. If the front panel terminals are used, the load regulation will be 0.5mV per ampere greater, due to the front terminal resistance.

**ERROR SENSING:**

Error sensing is normally accomplished at the front terminals if the load is attached to the front or at the rear terminals if the load is attached to the rear terminals. Also, provision is included on the rear terminal strip for remote sensing.

**REMOTE PROGRAMMING:**

Remote programming of the supply output at approximately 200 ohms per volt in constant voltage is made available at the rear terminals. In constant current mode of operation, the current can be remotely programmed at approximately 100 ohms per ampere.

**COOLING:**

Convection cooling is employed. The supply has no moving parts.

**SIZE:**

5 $\frac{1}{4}$ " H x 16" D x 8 $\frac{1}{2}$ " W. Two of the units can be mounted side by side in a standard 19" relay rack.

**WEIGHT:**

30 lbs. net. 40 lbs. shipping.

**FINISH:**

Light gray front panel with dark gray case.

**POWER CORD:**

A three-wire, five-foot power cord is provided with each unit.