

Table 1-1. Specifications

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| <p>INPUT: 115/230Vac, $\pm 10\%$, 48-440Hz, 0.29A, 28W.</p> <p>OUTPUT: 0-100Vdc, 0-100mA.</p> <p>LOAD REGULATION: <u>Constant Voltage</u> - Less than 8 millivolts for a load current change equal to the current rating of the supply. <u>Constant Current</u> - Less than 500μA for a load voltage change equal to the voltage rating of the supply.</p> <p>LINE REGULATION: <u>Constant Voltage</u> - Less than 4 millivolts for $\pm 10\%$ change in the nominal line voltage at any output voltage and current within rating. <u>Constant Current</u> - Less than 500μA for a $\pm 10\%$ change in the nominal line voltage at any output voltage and current within rating.</p> <p>RIPPLE AND NOISE: <u>Constant Voltage</u> - Less than 200μV rms/1mV p-p (dc to 20MHz). <u>Constant Current</u> - Less than 150μA rms/500μA p-p (dc to 20MHz).</p> <p>TEMPERATURE RANGES: Operating: 0 to 55°C. Storage: -40°C to +75°C.</p> <p>TEMPERATURE COEFFICIENT: <u>Constant Voltage</u> - Less than 0.02% \pm1mV output change per degree centigrade change in ambient following 30 minutes warm-up. <u>Constant Current</u> - Less than 0.5 milliampere output change per degree centigrade change in ambient following 30 minutes warm-up.</p> <p>STABILITY: <u>Constant Voltage</u> - Less than 0.1% \pm5mV total drift for 8 hours following 30 minutes warm-up at constant ambient, constant line voltage, and constant load. <u>Constant Current</u> - Less than 1.3mA total drift for 8 hours following 30 minutes warm-up at constant ambient, constant line voltage, and constant load.</p> <p>OUTPUT IMPEDANCE: Represented as an 80mΩ resistance in series with a 6μH inductance.</p> | <p>TRANSIENT RECOVERY TIME: Less than 50μsec for output voltage recovery in constant voltage operation to within 15mV of the nominal output voltage following a change in output current equal to the current rating of the supply.</p> <p>OVERLOAD PROTECTION: A fixed current limiting circuit protects the power supply for all overloads including a direct short circuit placed across the output terminals in constant voltage operation.</p> <p>METER: The front panel meter can be used as either a 0-120V voltmeter or as a 0-120mA ammeter.</p> <p>OUTPUT CONTROLS: Concentric coarse and fine voltage controls and, concentric coarse and fine current controls set desired output voltage/current. Meter switch selects voltage or current.</p> <p>OUTPUT TERMINALS: Three "five-way" output terminals are provided on the front panel. They are isolated from the chassis and either the positive or negative terminal may be connected to the chassis through a separate ground terminal.</p> <p>COOLING: Convection cooling is employed. The supply has no moving parts.</p> <p>SIZE: 3$\frac{1}{4}$"/8, 26cm H x 5$\frac{1}{4}$"/13, 34cm W x 7"/78cm D. Using a Rack Mounting Kit, three units can be mounted side by side in a standard 19" relay rack.</p> <p>WEIGHT: 4.75 lbs./2, 2kg. net, 6.75 lbs./3, 1kg. shipping.</p> <p>FINISH: Dark gray.</p> <p>POWER CORD: A 3-wire, 5-foot (1,52cm) power cord is provided with each unit.</p> |
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