

Table 1-1. Specifications

<p>INPUT: 115/230Vac $\pm 10\%$, single phase, 48-66Hz, 2.7A, 260W @ 115V.</p> <p>OUTPUT: <u>Independent Mode</u> - Two independent outputs, each of which can be set from 0-25 volts at 0-2 amperes. <u>Tracking Mode</u> - Tracking outputs of 0 to ± 25 volts at 2 amperes each.</p> <p>LOAD REGULATION: <u>Constant Voltage</u> - Less than 0.01% plus 1mV for a load current change equal to the current rating of the supply. <u>Constant Current</u> - Less than 0.01% plus 250μA for a load voltage change equal to the voltage rating of the supply.</p> <p>LINE REGULATION: <u>Constant Voltage</u> - Less than 1mV for a change in line voltage from 103.5 to 126.5V at any output voltage and current within rating. <u>Constant Current</u> - Less than 100μA for a line voltage change from 103.5 to 126.5V at any output voltage and current within rating.</p> <p>RIPPLE AND NOISE: <u>Constant Voltage</u> - Less than 250μVrms, 4mV p-p (dc to 20MHz). <u>Constant Current</u> - Less than 250μA rms, 2mA p-p (dc to 20MHz).</p> <p>TEMPERATURE RATINGS: Operating: 0 to 55$^{\circ}$C. Storage: -40 to +75$^{\circ}$C.</p> <p>TEMPERATURE COEFFICIENT: <u>Constant Voltage</u> - Less than 0.02% plus 200μV change per degree Centigrade change in ambient following 30 minutes warm-up. <u>Constant Current</u> - Less than 0.02% plus 300μA change per degree Centigrade change in ambient following 30 minutes warm-up.</p> <p>STABILITY: <u>Constant Voltage</u> - Less than 0.2% plus 2mV total drift for 8 hours following 30 minutes warm-up under constant ambient conditions. <u>Constant Current</u> - Less than 0.2% plus 3mA total drift for 8 hours following 30 minutes warm-up under constant ambient conditions.</p> <p>OUTPUT IMPEDANCE: A 2mΩ resistor in series with a 2μH inductor.</p> <p>WEIGHT: 24 lbs. (11 Kg) net. 28 lbs. (12.9 Kg) shipping.</p>	<p>TRANSIENT RECOVERY TIME: Less than 50μsec is required for output voltage recovery (in constant voltage operation) to within 10mV of the nominal output voltage following a 2 ampere change in output current.</p> <p>METERS: Each front panel meter can be used as either a 0-30V voltmeter or a 0-2.4A ammeter. Meters are accurate within 2% of full scale; meter switch selects voltage or current readings.</p> <p>OUTPUT CONTROLS: Single-turn concentric coarse and fine voltage and current controls are included on the front panel. Mode switch selects one of two modes of operation: either two independent, isolated outputs; or the two outputs connected in series and referred to a common bus for tracking.</p> <p>SLAVE TRACKING ERROR: During tracking operation, the slave supply is matched to within 0.2% ± 2mV of the master supply.</p> <p>REMOTE VOLTAGE PROGRAMMING: All programming terminals on rear barrier strips. <u>Constant Voltage</u> - 1V/volt. <u>Constant Current</u> - 0.5V/ampere.</p> <p>REMOTE RESISTANCE PROGRAMMING: All programming terminals on rear barrier strips. <u>Constant Voltage</u> - 200 ohms/volt. <u>Constant Current</u> - 500 ohms/ampere.</p> <p>OVERVOLTAGE PROTECTION CROWBAR: During independent operation, each supply is protected by its own crowbar. In the tracking mode, an overvoltage in either supply results in firing both crowbars. The minimum crowbar trip setting above the desired operating output voltage to prevent false crowbar tripping is 7% of output voltage setting plus 1.5 volt. Nominal trip voltage range is 5 to 28Vdc.</p> <p>COOLING: Convection cooling is employed. The supply has no moving parts.</p> <p>SIZE: 6-17/32" (16, 59cm) H x 12-3/8" (31, 43cm) D x 7-3/4" (19, 69cm) W.</p> <p>FINISH: Light gray panel with dark gray case.</p>
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