

1-15 OPTIONS

1-16 Options are factory modifications of a standard instrument that are requested by the customer.

OPTION NO

J13

910

DESCRIPTION

Permits operation on 230Vac, 48-63Hz through use of an external accessory 230V to 115V step-down transformer.

Extra Manual

Table 1-1. Specifications

<p>INPUT: 115 Vac $\pm 10\%$, 48-440 Hz, 4A, 270W.</p> <p>OUTPUT: 0-4000 Vdc, 0-50 mA.</p> <p>LOAD REGULATION: <u>Constant Voltage:</u> Less than 0.005% or 20mV whichever is greater for a full load to no load change in output current. <u>Constant Current:</u> Less than 2% or 1 mA whichever is greater, for a full load to no load change in output voltage.</p> <p>LINE REGULATION: For a change in line voltage of 115Vac $\pm 10\%$ at any output voltage and current within rating. <u>Constant Voltage:</u> Less than 0.005% or 20 mV, whichever is greater. <u>Constant Current:</u> Less than 1 mA.</p> <p>PARD (RIPPLE AND NOISE): At any line voltage and under any load condition within rating <u>Constant Voltage:</u> Less than 1 mV rms/150mv p-p. <u>Constant Current:</u> Less than 500 μA rms.</p> <p>TRANSIENT RECOVERY TIME: Less than 50 μsec is required for output voltage recovery to within 0.005% or 20 mV, whichever is greater, following a full load to no load or no load to full load change in output current.</p> <p>TEMPERATURE RATINGS: Operating: 0 to 55^oC Storage: -40 to 75^oC.</p> <p>TEMPERATURE COEFFICIENT: Output change per degree centigrade change in ambient following 30 minutes warm-up <u>Constant Voltage:</u> 0.012% plus 1 mV. <u>Constant Current:</u> 0.2% plus 0.05 mA.</p>	<p>STABILITY: Under constant ambient conditions, total drift for 8 hours following 60 minutes warm-up <u>Constant Voltage:</u> 0.036% plus 3 mV. <u>Constant Current:</u> 0.25% plus 0.12 mA.</p> <p>CONTROLS: Voltage controls consist of a three decade thumbwheel switch plus a thumbwheel vernier with 0.002% resolution. A single turn potentiometer controls output current.</p> <p>METERS: Zero to 4 kV and 0-50 mA front panel meters are included. They provide accuracy of 2% full scale.</p> <p>CALIBRATION ACCURACY: One percent of the voltage control setting, $\pm 1V$.</p> <p>OUTPUT IMPEDANCE: DC to 100 Hz (cps.) -- less than 0.01Ω. 100 Hz to 1 k Hz -- less than 0.02Ω. 1 k Hz to 100 k Hz -- less than 0.5Ω. 100 k Hz to 1 M Hz -- less than 3Ω.</p> <p>SIZE: 5$\frac{1}{4}$" H x 18" D x 19" W (standard rack width).</p> <p>WEIGHT: 42 lbs. net, 63 lbs. shipping.</p> <p>FINISH: Light gray front panel with dark gray case.</p>
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