

# SPECIFICATIONS

## MODEL 501TC AC POWER SOURCE

All specifications are tested in accordance with standard California Instruments test procedures and apply with a stable, low distortion input signal as generated by a T series plug-in oscillator.

POWER OUTPUT:	500 VA at 105 to 135 volts rms output from unity to $\pm 0.7$ power factor. See derating chart for operation at other output voltages and/or power factor.
OUTPUT VOLTAGE RANGES:	0 to 135 volts rms and 0 to 270 volts rms as determined by rear panel straps.
TOTAL HARMONIC DISTORTION:	Less than 0.30% distortion from 200 Hz to 600 Hz; less than 0.5% distortion from 45 Hz to 5 KHz.
AMPLITUDE STABILITY: (after one hour warm-up)	$\pm 0.25\%$ for 24 hours at constant line, load and ambient temperature conditions.
LOAD REGULATION:	$\pm 1\%$ over the range from 45 Hz to 5 KHz when tested at unity power factor. In addition, a load regulation adjustment permits the regulation to be adjusted to zero at any given line voltage, signal frequency and load conditions. Control resolution is 0.1%.
LINE REGULATION:	$\pm 0.25\%$ of full output for a $\pm 10\%$ line change.
* FULL POWER FREQUENCY RANGE:	45 Hz to 5 KHz.
FREQUENCY RESPONSE:	$\pm 0.5$ dB from 45 Hz to 5 KHz.
AC NOISE LEVEL:	80 dB below full output with input shorted; 60 dB below full output at full rated power output.
OVERLOAD AND SHORT CIRCUIT PROTECTION:	Complete protection from overloads and short circuits is provided. Automatic reset occurs when overload is removed.

\* This power source may be used over the 20 Hz to 20 KHz frequency range provided the output voltage and the output VA are derated according to Table 2-2 in this instruction manual; otherwise permanent damage to the unit may occur.

AMPLIFIER DRIVE REQUIREMENTS: (normally obtained from plug-in)	5 volts rms (maximum) produces 135 volts rms.
AC INPUT LINE:	105 to 125 volts rms. Unit may be wired for the following single phase voltages on special order: 208 VAC, 220 VAC, 230 VAC, and 240 VAC.
AC INPUT FREQUENCY:	48 to 65 Hz. (400 Hz available on special order.)
AC INPUT POWER:	1900 watts maximum under worst case line and full rated load conditions.
OPERATING TEMPERATURE RANGE:	0 to 55°C.
FRONT PANEL METER:	0 to 150 volt and 0 to 300 volt AC voltmeter provides $\pm 1\%$ of full scale accuracy at 400 Hz and $\pm 3\%$ of full scale accuracy over the range from 45 Hz to 5 KHz.
DIMENSIONS:	7" high x 19" wide x 21" deep.
NET WEIGHT:	80 lbs.
SHIPPING WEIGHT:	90 lbs.
FRONT PANEL FINISH:	Grey, 26440 per Federal Standard 595 with black silk-screened lettering.