

SPECIFICATIONS

Model 1501TPM 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 any T-series oscillator/power controller.

POWER OUTPUT:

1500 VA at 110 to 130 volts rms on the 0-130V range.

1500 VA at 220 to 260 volts rms on the 0-260V range.

All ranges from unity to 0.7 lead or lag power factor. See derating chart for operation at lower voltages and/or power factors.

OUTPUT VOLTAGE RANGES:

0-130 volts rms

0-260 volts rms

Voltage range selectable by front panel switch or via IEEE-488 Bus when used with the Model 847T, 835T, 848TCM, or 849T Power Controller

PULSE CURRENT:

Peak pulse current of 45 amperes on the 130 volt range.

Peak pulse current of 22.5 amperes on the 260 volt range.

PULSE WIDTH:

1 millisecond maximum. Phase angle of pulse must be limited to $\pi/3$ to $2\pi/3$ and $4\pi/3$ to $5\pi/3$.

VOLTAGE DROOP:

Instantaneous voltage droop from the no load value 10 volts maximum.

TOTAL HARMONIC DISTORTION:

Less than 0.5% from 45 Hz to 600 Hz with linear load.

Less than 1.0% from 45 Hz to 600 Hz with maximum pulse load.

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 600 Hz when tested at unity power factor.
LINE REGULATION:	$\pm 0.25\%$ of full output for a ± 10 percent line change.
FULL POWER FREQUENCY RANGE:	45 Hz to 600 Hz.
FREQUENCY RESPONSE:	± 0.5 dB from 45 Hz to 600 Hz.
AC NOISE LEVEL:	70dB below full output with shorted input. 60dB 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.
AMPLIFIER DRIVE REQUIREMENTS: (Normally obtained from plug-in)	5 volts rms (maximum) produces full scale output.
AC INPUT LINE:	207 to 253 volts rms. Unit may be wired for the following single phase voltages on special order: 115 VAC, 208 VAC, 220 VAC and 240 VAC.
AC INPUT FREQUENCY:	48 to 65 Hz.
AC INPUT POWER:	6000 watts maximum under worst case line and full rated worst case load conditions.
AC INPUT VOLT-AMPERES:	8000 VA maximum under worst case line and full rated worst case load conditions.
OPERATING TEMPERATURE RANGE:	0 to 55 degrees C.

FRONT PANEL METER:
(Meter range is controlled
by range programming.)

0 to 160, 320 volts AC voltmeter
provides $\pm 1\%$ of full scale
accuracy at 60 Hz and $\pm 3\%$ of full
scale accuracy over the range
from 45 Hz to 600 Hz.

DIMENSIONS:

Height	15.75"
Width	19.0"
Depth	21.0"

NET WEIGHT:

205 pounds.

SHIPPING WEIGHT:

230 pounds.

FRONT PANEL FINISH:

Gray, 26440 per Federal Standard
595 with black silk-screened
lettering.

POWER DERATING CHART
FOR MODEL 1501TPM AC
POWER SOURCE

The derating chart applies over
the range from 45 Hz to 600 Hz.

