## Rated Output Power 0.3% THD (FTC) @ rated line voltage > 110 Watts into 8 Ohms (Class A operation). 0.3% THD (FTC) @ rated line voltage > 220 Watts into 4 Ohms (55 Watts Class A operation) 0.5% THD (FTC) @ rated line voltage > 400 Watts into 2 Ohms (27.55 Watts Class A operation).

1% THD (FTC) @ rated line voltage > 600 Watts into 1 Ohm (13.75 Watts Class A operation)

LOW IMPEDANCE SETTING

0.3% THD (FTC) @ rated line voltage: 110 Watts into 4 Ohms (Class A operation). 0.5% THD (FTC) @ rated line voltage: 220 Watts into 2 Ohms (55 Watts Class A operation). 1% THD (FTC) @ rated line voltage: 400 Watts into 1 Ohm (27.55 Watts Class A operation).

# Rated Output Voltage

HIGH IMPEDANCE SETTING
With continuous sine waves from 20Hz-20KHz @ rated line voltage: 42 Volts peak into 8 Ohms corresponding to 220 Watts peak.

40 Volts peak into 2 Ohms corresponding to 800 Watts peak.

34.64 Volts peak into 1 Ohm corresponding to 1,200 Watts peak.

LOW IMPEDANCE SETTING with continuous sine waves from 20Hz-20KHz @ rated line voltage:

29.66 Volts peak into 4 Ohms corresponding to 220 Watts peak.

29.66 Volts peak into 2 Ohms corresponding to 440 Watts peal

28.28 Volts peak into 1 Ohm corresponding to 800 Watts peak.

## Rated Output Current

HIGH IMPEDANCE SETTING
with continuous sine waves from 20Hz-20KHz @ rated line voltage:

5.24 Amps peak into 8 Ohms corresponding to 220 Watts peak.

10.48 Amps peak into 4 Ohms corresponding to 440 Watts peak

20 Amps peak into 2 Ohms corresponding to 800 Watts peak.

42.43 Amps peak into 1 Ohm corresponding to 1,200 Watts peak

LOW IMPEDANCE SETTING with continuous sine waves from 20Hz-20KHz @ rated line voltage:

7.42 Amps peak into 4 Ohms corresponding to 220 Watts peak.

14.84 Amps peak into 2 Ohms corresponding to 440 Watts pea

28.28 Amps peak into 1 Ohm corresponding to 800 Watts peak.

## Maximum (clipping) Output Power

HIGH IMPEDANCE SETTING
Continuous 1 KHz sine-wave power with no more than:

1% THD (FTC) @ rated line voltage: 150 Watts into 8 Ohms.

1% THD (FTC) @ rated line voltage: 300 Watts into 4 Ohms.

1% THD (FTC) @ rated line voltage: 500 Watts into 2 Ohms.

LOW IMPEDANCE SETTING
Continuous 1 KHz sine-wave power with no more than

1% THD (FTC) @ rated line voltage: 150 Watts into 4 Ohms.

1% THD /FTC) is rated line voltage: 300 Watts into 2 Ohms

1% THD (FTC) @ rated line voltage: 450 Watts into 1 Ohm.

## Maximum (clipping) Output Power

HIGH IMPEDANCE SETTING
With continuous 1 KHz sine wave @ rated line voltage:

6.12 Amps peak into 8 Ohms corresponding to 300 Watts peak.

12.24 Amps peak into 4 Ohms corresponding to 600 Watts pea

22.36 Amps peak into 2 Ohms corresponding to 1,000 Watts peak. 37.42 Amps peak into 1 Ohm corresponding to 1,400 Watts peak

LOW IMPEDANCE SETTING
With continuous 1 KHz sine wave @ rated line volta

8.66 Amps peak into 4 Ohms corresponding to 300 Watts peak.

17.32 Amps peak into 2 Ohms corresponding to 600 Watts peak

30 Amps peak into 1 Ohm corresponding to 900 Watts peak.

## Maximum (clipping) Output Power

HIGH IMPEDANCE SETTING
With continuous 1 KHz sine wave @ rated line voltage:

49 Volts peak into 8 Ohms corresponding to 300 Watts.

44.72 Volts peak into 2 Ohms corresponding to 1,000 Watts peak. 37.42 Volts peak into 1 Ohm corresponding to 1,400 Watts peak

LOW IMPEDANCE SETTING
With continuous 1 KHz sine wave @ rated line voltage

34.64 Volts peak into 4 Ohms corresponding to 300 Watts peak.

34.64 Volts peak into 2 Ohms corresponding to 600 Watts peak

## Small Signal Frequency Response

At 1 Watt into 8 Ohms @ rated line voltage: (+0; -3dB) 4 Hz - 155 KHz.

LOW IMPEDANCE SETTING
With continuous 1 KHz sine wave @ rated line voltage

at 1 Watt into 4 Ohms @ rated line voltage: (+0; -3dB) 4 Hz - 155 KHz.

## Frequency Response

HIGH IMPEDANCE SETTING

At 1 Watt into 8 Ohms @ rated line voltage: (+0; -3dB) 4 Hz - 155 KHz.

LOW IMPEDANCE SETTING
With continuous 1 KHz sine wave @ rated line voltage:

at 1 Watt into 4 Ohms @ rated line voltage: (+0; -3dB) 4 Hz - 155 KHz.

## Slew Rate

# Rise Time

Vout = 83.9 Volts peak-to-peak of square-wave signal into 8 Ohms F=10KHz @ rated line voltage: 2 microseconds

Signal/Noise ratio ref. 2.83 Volts RMS into 8 Ohms (1 W): 22 Hz - 22 KHz: typically 68.5 dB | A weighted: typically 75.5 dB

Signal/Noise ratio ref. 29.7 Volts RMS into 8 Ohms (110 W): 22 Hz - 22 KHz: typically 89 dB | A weighted: typically 96 dB

# IM Distortion

from 0.1-110 Watts into 8 Ohms @ rated line voltage: no more than 1%

from 0.1-400 Watts into 2 Ohms @ rated line voltage: no more than 1.5%

from 0.1-600 Watts into 1 Ohm @ rated line voltage: no more than 1.5%

from 0.1-110 Watts into 4 Ohms @ rated line voltage: no more than 1%

from 0.1-220 Watts into 2 Ohms @ rated line voltage: no more than 1.5% from 0.1-400 Watts into 1 Ohm @ rated line voltage: no more than 2%

## Voltage Gain

pin 1 = signal ground;

pin 2 = non-inverting input (+);

pin 3 = inverting input (-).

e-ended RCA connector (connected in parallel with pin 2 of XLR

INVERTING

brass gold plated single-ended RCA connector (connected in parallel with pin 3 of XLR connector).

## Input Sensitivity HIGH IMPEDANCE SETTING

0.761 Volts RMS ± 2% for 110 Watts into 8 Ohms.

LOW IMPEDANCE SETTING

0.538 Volts RMS ± 2% for 110 Watts into 4 Ohms.

0.538 Volts RMS ± 2% for 220 Watts into 2 Ohr

0.513 Volts RMS ± 2% for 400 Watts into 1 Ohm.

## Input Impedance

Two sets of brass gold plated binding posts

## Output Impedance

At 1 KHz: typically 0.082 Ohm. From 20 Hz - 20 KHz: typically 0.082 +0.007/-0.002 Ohm

## Damping Factor

at 1 KHz: typically 98 re: 8 Ohm. From 20 Hz - 20 KHz: typically 98 +2/-8 re: 8 Ohm

## Operating Temperature

Grounding

Power Supply

Two power transformers two filter chokes eight separate power supplies.

# Power Supply Energy Storage

AC voltage intensively filtered by special RFI power line filter. ver Supply Energy Storage: Approximately 220 joules.

## Front Panel Controls

## Rear Panel Connectors and Controls

POWER SWITCH.

LOAD SWITCH.

AC POWER INLET. AC MAINS FUSE along with the corresp

One input XLR connector gold-plated. Two input RCA connectors gold-plated.

Two sets of gold-plated SPEAKER BINDING POSTS.

EARTHING (GROUNDING) post gold-plated.

AC voltage selector: 100/120/220/230/240 Volts internally switchable

Transformer hum reducer: Special circuit reduces power trans residual mechanical hum.

Ultra low-noise power transformer: Custom-made toroidal power transformer has no mechanical contact with either the transformer cover or the chassis as transformer is suppended in a special encapulant in that almost completely absorbs even the residual mechanical vibrations. This plays a significant role in assuring the absolutely unique clar and micro-resolution during sound reproduction.

Bias setting (load) switch: Switch-selectable biasing circuit maintains pure Class A operation of the output stage for all load conditions between 4-16 Ohms.

Remote control: Power on/off. Available remote link cable coordinates the remote functi of two or more amplifiers.

Safety/Protection: "Soft-start" circuit protects power supply components from large in-rush currents when the amplifier is turned on. Protection against possible damages from high voltage transients on AC power lin

Thermal resetting fuse connected in series with AC mains fuse controls heat-sink temperature,

Threshold: 176 degrees Fahrenheit (80 degrees Celsius) Thermal resetting fuse controls internal temperature of the power transformer.

reshold: 248 degrees Fahrenheit (120 degrees Celsius)

Unique electronic protection circuit guards against accidental abuse (e.g. overload shorts across the output excessive DC at the input or output etc.).

6.25 Amps slo-bio for 100/120 Volts (3 Amps slo-bio for 220/230/240 Volts); 0.125 Amps slo-bio for 100/120/220/230/240 Volts internally mounted.

## General

Nominal: Typically 330 Watts ⊕ rated output ⊕ 8(4) Ohms (class A operation) and at idle.

imum: Typically 750 Watts @ rated output @ 1 Ohm (low impedi

Burn-in Time at Factory: Minimum 72 hours. Recommended Burn-in Time in End-user's System: Minimum 200 hours.

Warm-up time: Minimum 45 minutes

8.25'(21cm) H x 17'(43.2cm) W x 19.5'(49.5cm) D. [add 2.8125'(7.14cm) of depth for front and rear handles].

Shipping weight: 94 Lbs (42.7 Kg).

Tube Complement: V101 - 6922 (second amplification stage)