## Output Power 32 Watts into 16. 8. or 4 Ohms Rated Output Power

um continuous sine-wave power, from 20Hz-20KHz with no more than: 0.3% THD (FTC) @ rated line voltage > 1 Watt into 16 Ohms.

3% THD (FTC) @ rated line voltage > 30 Watts into 16 Ohms

0.3% THD (FTC) @ rated line voltage > 1 Watt into 8 Ohms

3% THD (FTC) @ rated line voltage > 30 Watts into 8 Ohm 0.3% THD (FTC) @ rated line voltage > 1 Watt into 4 Ohms.

## Rated Output Voltage

With continuous sine waves at 1KHz @ rated line voltage

30.98 Volts peak into 16 Ohms, corresponding to 60 Watts peak.

21.91 Volts peak into 8 Ohms, corresponding to 60 Watts peak 15.49 Volts peak into 4 Ohms, corresponding to 60 Watts peak.

# Rated Output Current

with continuous sine waves at 1KHz @ rated line voltage

1.94 Amps peak into 16 Ohms, corresponding to 60 Watts peak.

2.74 Amps peak into 8 Ohms, corresponding to 60 Watts peak 3.87 Amps peak into 4 Ohms, corresponding to 60 Watts peak.

## Maximum Output Power

5% THD (FTC) @ rated line voltage > 37 Watts into 16 Ohms.

5% THD (FTC) @ rated line voltage > 37 Watts into 8 Ohm

5% THD (FTC) ⊗ rated line voltage > 37 Watts into 4 Ohms.

## Maximum Output Voltage

34.41 Volts peak into 16 Ohms, corresponding to 74 Watts peak.

24.33 Volts peak into 8 Ohms, corresponding to 74 Watts peak 17.2 Volts peak into 4 Ohms, corresponding to 74 Watts peak.

# Maximum Output Current

2.15 Amps peak into 16 Ohms, corresponding to 74 Watts peak.

3.04 Amps peak into 8 Ohms, corresponding to 74 Watts pea 4.3 Amps peak into 4 Ohms, corresponding to 74 Watts peak.

Small Signal Frequency Response

(0, -3dB) 8.5 Hz - 32 KHz.

## Frequency Response

At 30 Watt into 16 Ohms @ rated line voltage:

(0dB, -1.5dB) 20 Hz, 20 KHz.

## Slew Rate

Vout=61.96 Volts peak-to-peak of square-wave signal into 16 Ohms, F=10KHz @ rated line voltage: 5 Volts per microsecond

# Fall Time

Vout=61.96 Volts peak-to-peak of square-wave signal into 16 Ohms, F=10KHz @ rated linvoltage: 10 microseconds

Signal/Noise ratio ref. 4 Volts RMS into 16 Chms (1 Watt): 2 Hz - 22 KHz: typically 86 dB. | A weighted: typically 92 dB.

Signal/Noise ratio ref. 21.91 Volts RMS into 16 Ohms (30 Watts): 22 Hz - 22 KHz: typically 100 dB. | A weighted: typically 106 dB.

## Voltage Gain

30 Watts into 4 Ohms: 12.89 ± 2% or 22.2 + 0.2dB

## IM Distortion

from 1-30 Watts into 16 Ohms @ rated line voltage: no more than 10%

from 1-30 Watts into 8 Ohms @ rated line voltage: no more than 10 from 1-30 Watts into 4 Ohms @ rated line voltage: no more than 10%

lo-balanced, non-inverting: 3-pin XLR connector

3-pin XLR pin assignment: pin 1 = signal ground; pin 2 = non-inverting signal input; pin 3 = signal ground.

Single-ended, non-inverting: gold plated RCA connector (connected in parallel with pin 2, non-inverting input of XLR connector).

ONLY ONE OF THESE INPUTS SHOULD BE CONNECTED TO A PREAMPLIFIER AT THE SAME

## Input Sensitivity

30 Watts into 16. 8. and 4 Ohms > 0.85 Volts RWS ± 2%

## Input Impedance

41 KOhms shunted by 470pF.

## Outputs

# Output Impedance

typically 6.2 Ohms; 16-Ohm tap.

typically 3.1 Ohms; 8-Ohm t

typically 1.55 Ohms; 4-Ohm tap.

## from 30 Hz - 20 KHz

typically 6.2 +1.5/-0.1 Ohms; 16-Ohm tap.

typically 3.1 +0.75/-0.05 Ohms; 8-Ohm tap

typically 1.55 +0.375/-0.025 Ohms; 4-Ohm tap.

## Damping Factor

typically 2.58 re: 16-0hm load.

typically 2.58 re: 8-0hm loa

typically 2.58 re: 4-0hm load. From 30 Hz - 20 KHz:

typically 2.58 +0.043/-0.5 re: 16-Ohm load.

typically 2.58 +0.043/-0.5 re: 8-Ohm load

typically 2.58 +0.043/-0.5 re: 4-Ohm load.

## Operating Temperature

Operating Temperature: -4 to +104 degrees Fahrenheit (-20 to +40 degrees Celsius) ambient

rounding (earthing) post and chassis connected to mains earthing

## Power Supply

nal line voltage: 100-240 Volts 50/60Hz. Input voltage range: ±10

Two power transformers, one filament transformer, six filter chokes, seven separate po supplies, six rectifier tubes.

AC voltage intensively filtered by special RFI power line filter.

# Power Supply Energy Storage

wer Supply Energy Storage: Approximately 265 joules

## Front Panel Controls and Chassis Connectors & Controls

ML3 Front Panel Controls: LED control.

## CHASSIS CONNECTORS AND CONTROLS:

MULTI-TURN TRIMMING POTENTIOMETER for setting the nominal value of plate current of the output tube V1.

Set of TESTPOINTS for measuring the value of plate current of the output tube by using an external voltmeter.

Plate FUSE for the output tube, along with corresponding fuse-folder

LOCAL NFB ON-OFF switch, allowing to introduce small amounts of local feedback in the output stage.

NFB1 - NFB2 switch, allowing to vary the amounts of local feedback (2.4dB and 1.2dB respectively) One input RCA connector, gold plated (located on the left side of the chassis).

One input XLR connector, gold plated (located on the left side of the chassis)

REAR PANEL CONNECTORS AND CONTROLS:

PANEL RECEPTACLE, MALE for connecting the power supply cable.

ML3-PS Front Panel Controls: LED control.

## CHASSIS CONNECTORS AND CONTROLS: Six RECTIFIER TUBES (V101 - V106).

REAR PANEL CONNECTORS AND CONTROLS:

AC POWER INLET. AC MAINS FUSE, along with corresponding fuse-holder

FRONT-END PLATE FUSE, along with corresponding fuse-holder PANEL RECEPTACLE, FEMALE, for connecting the power supply cable.

Two DC POWER JACKS (central pin 2mm dia.) for connecting remote control/link cables.

GROUNDING (EARTHING) POST (gold plated).DING POSTS.

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

Ultra low-noise power and filament transformers:
Custom-made torodial power transformer has no mechanical contact with either the
transformer cover the chastis, as tensformer is suppended in a special encapsulant which
almost completely alsorbs even the residual mechanical vibrations. This plays a significant
from the substitute of absolutely unique continued may be included in the continued of the continued of

ide-band output transformer: astom-made output transformer especially designed for handling high voltage power triode di assuring the reproduction of a full spectrum of audio frequencies at any level of output were up to the maximum specified.

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

Fuse:
6.23 Args slo bild for 100/120 Volts (ML3-P5)
3 Args slo bild for 2007/20/240 Volts (ML3-P5)
3 Args slo bild for 2007/20/240 Volts (ML3-P5)
0.125 Args slo bild for an old if and erenotic control circuitry, internally mounted (ML3-P5)
0.125 Args slo bild-print circli Palate fine (ML3-P5)
0.35 Args flast-acting Plate fuse for the output tube (ML3)

Power Consumption: Typically 400 Watts @ rated output @ 16 (8,4) Ohms

Burn-in Time at Factory: Minimum 72 hours. Recommended Burn-in Time in End-user's System: Minimum 100 hours

Warm-up time: Minimum 25 minutes.

Unit dimensions: 8.25 inches (21cm) high  $\times$  16 inches (40.64cm) wide  $\times$  20.375 inches (51.75cm) deep [add 1.4375 inches (3.7cm) of depth for handles located on rear panel]

Crate dimensions: 26" x 21" x 14" (66.04cm x 53.34cm x 35.56cm) Unit weight ML3: 79 Lb (35.9 Kg).

Unit weight ML3-PS; 80.2 Lbs (36.41 Kg). Shipping weight ML3: 99 Lb (44.95 Kg)

Shipping weight ML3-PS: 100.2 Lbs (45.5 Kg).

Take Consistence (ILI.):

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Tube Complement ML3-PS:
• V101, V102, V103, V104, V105, V106 - 12AX3 / 12BE3, rectifier tubes