

# SANSUI AU 4900/3900/2900

Sansui AU Series Integrated Stereo Amplifiers—  
Honest high fidelity sound at practical prices.

*Sansui*





# AU-4900



# AU-3900



# AU-2900





# AU4900/3900/2900

## Fine Traditions in Sansui Sound

Sansui's latest AU integrated stereo amps add a new dimension to a well-established tradition. As an *audio-only* specialist we are proud that our AUs have always been in the vanguard of the state of the art, always have delivered the cleanest, most musical performance possible, and always have lived up to Sansui's rigid standards of tonal quality. But now, thanks to original improvements in power stability and extended service life, we provide the one additional factor demanded by today's high fidelity equipment buyer—economy. No longer are you asked to invest in equipment whose performance may deteriorate with age. No longer are you forced to pay for features you don't need—features whose only purpose is to disguise poor specifications or other limitations. Not only are these three new AU models the most economical we've ever created, they are the most reliable, too. Improved power supply circuits in the plus/minus symmetrical format, larger OCL power sections, and special low-noise phono equalizer and tone control amplifier sections fight distortion and instability more effectively than ever. And at prices within easy reach of music lovers everywhere. Check out the advantages of the new AUs, from Sansui, where it's *all* hi-fi.

importantly, the circuit integrity, to eliminate practically *all* distortion. In the AU-4900, this translates to a power output rating of a *continuous 35 watts per channel, min. RMS, both channels driven, into 8 ohms from 40 to 20,000Hz, with no more than 0.15% total harmonic distortion*. In the less costly AU-3900 only the power output is lower—22 watts per channel, min. RMS, measured under the same conditions with the same low, low 0.15% distortion.

This is more than ample power for very clean musical reproduction from small to medium sized stereo speaker systems. And it's more than enough to give you pleasurable, ultra-low distortion sound at loud or soft listening levels.

sections themselves are built around the true complementary Darlington-connected design with a dual-transistor differential amplifier in the initial stage.

### Wide Dynamic Range

These special touches mean that a wide dynamic range for all signals passing through the inputs, equalizer, tone control and power output circuits to your speakers is maintained always. You hear all sounds at their proper levels—subtle and soft, loud and throbbing, or in between as the artists and audio engineers intended.

### Mic Mixing Facility

Both AUs have what many stereo integrated amps lack—a mic mixing facility to let you blend microphone sounds with any program source for amplification through your speakers or for recording. It has its own mic level control next to the front-panel mic input jack to permit professional use.

### Very Accurate Phono Equalizer

Disc recordings are still regarded as the best sources for high fidelity music. But the low-level signals picked up by phono cartridges must be amplified with sufficient "headroom" to maintain fidelity. That's why both these AUs feature direct-coupled, low-noise transistors in their equalizers, coupled with precision elements to accept inputs up to 230mV/200mV (in reference to the 2.5mV input) from your favorite cartridge, even if it has an exceptionally high output voltage. RIAA deviation is kept at a minimum for ideal dynamic range, and the signal-to-noise ratio is an unusually good 75dB.

### Protection Circuit

Power abnormalities can be very damaging to your speakers and the power transistors of any OCL-type amplifier. As in all Sansui amps, however, the AU-4900 and AU-3900 feature an elaborate power protection circuit to immediately disconnect your speakers and safeguard



### Dual Plus/Minus Symmetrical Power Supplies

How is this low-distortion/high power performance achieved? For one, Sansui has eschewed the use of hybrid power ICs, choosing fully discrete component circuits instead. For another, the OCL-type power circuit has no coupling capacitor. Still another is the fact all circuits are supplied with plus/minus symmetrical voltages. And finally, the power

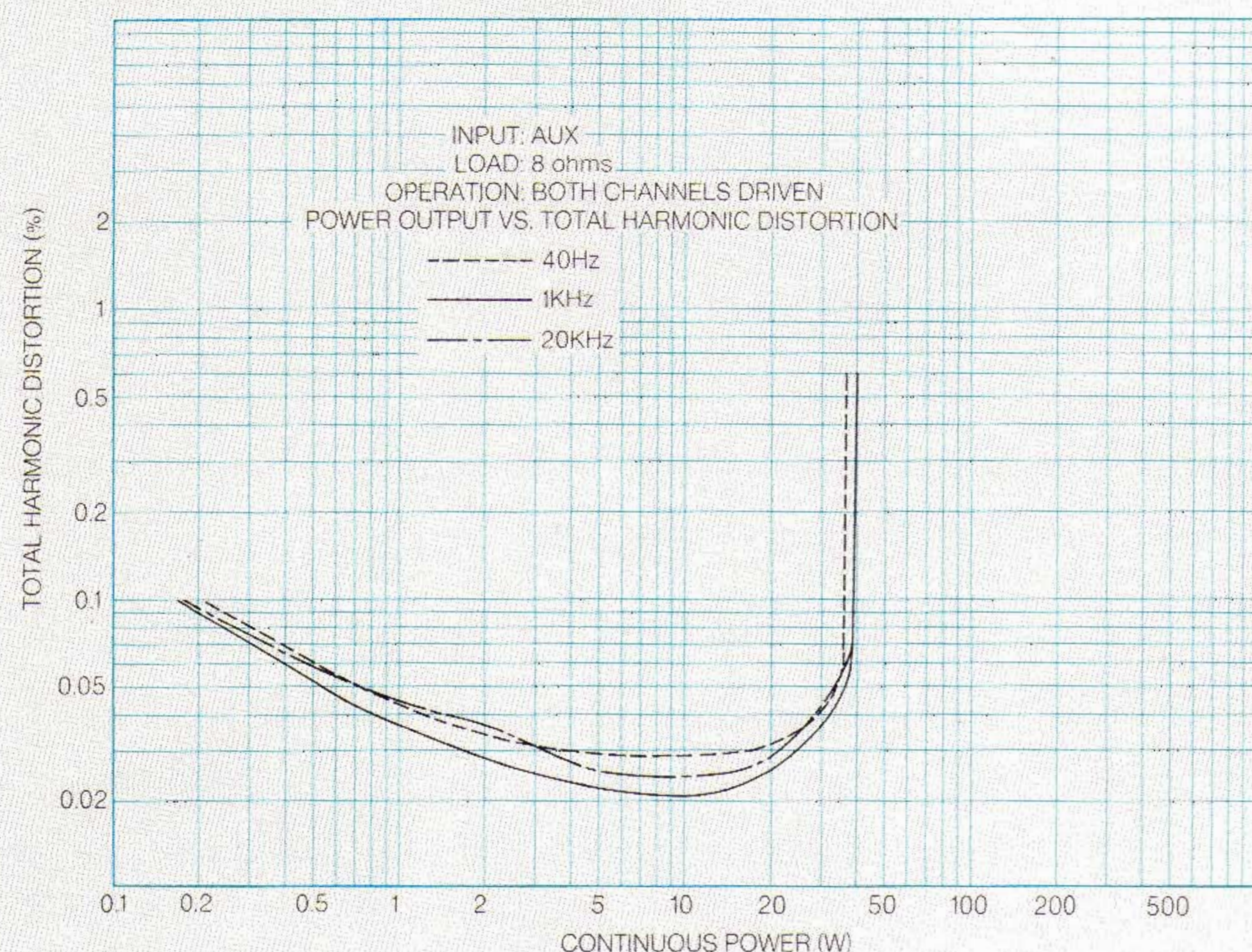
# AU4900

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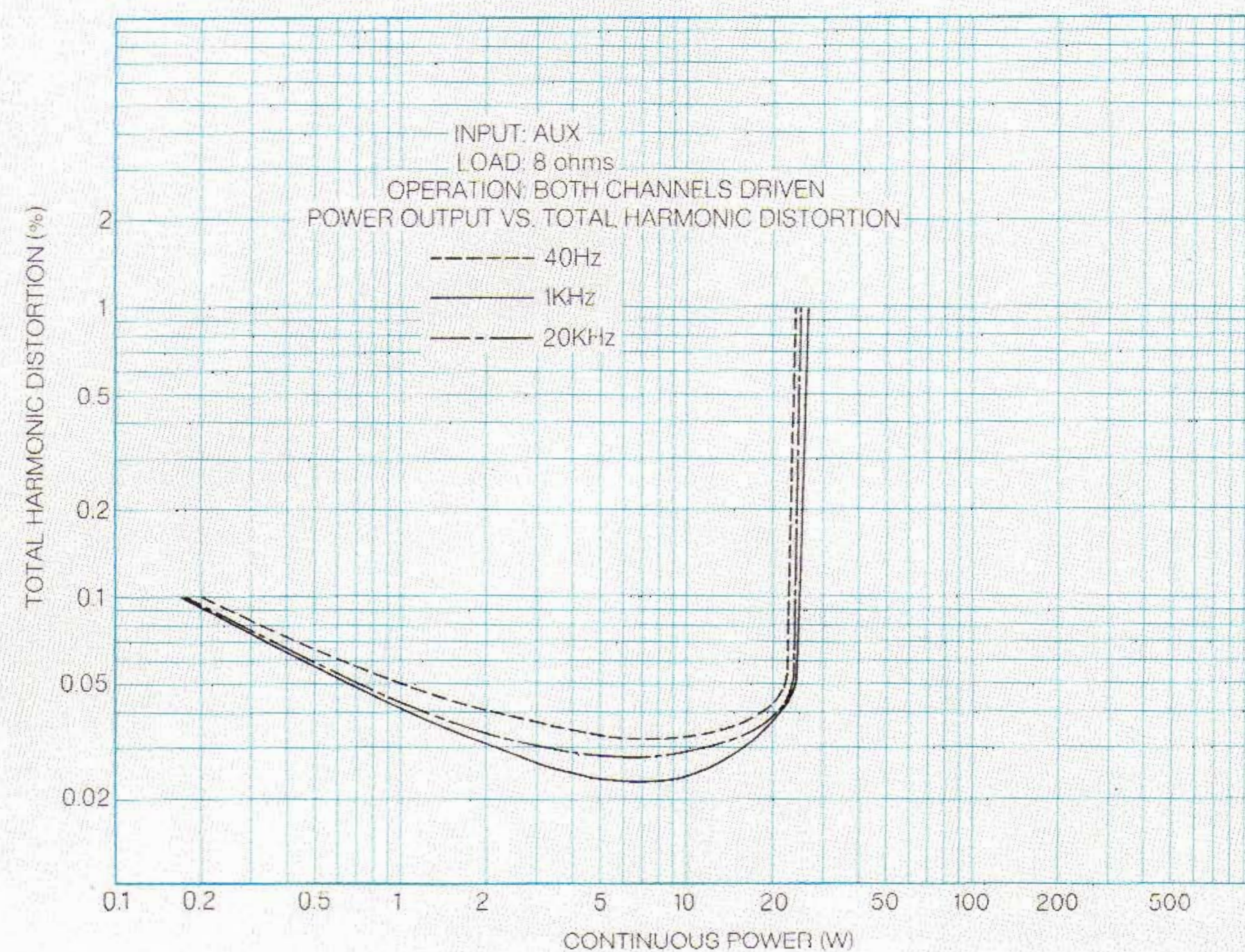
# AU3900

### Distortion 0.15% or Less

Let's get right to the heart of hi-fi: distortion. It hurts your ears. It hurts your music. And when you get right down to it, it's unnecessary! These amps have the stability, and more



AU-4900



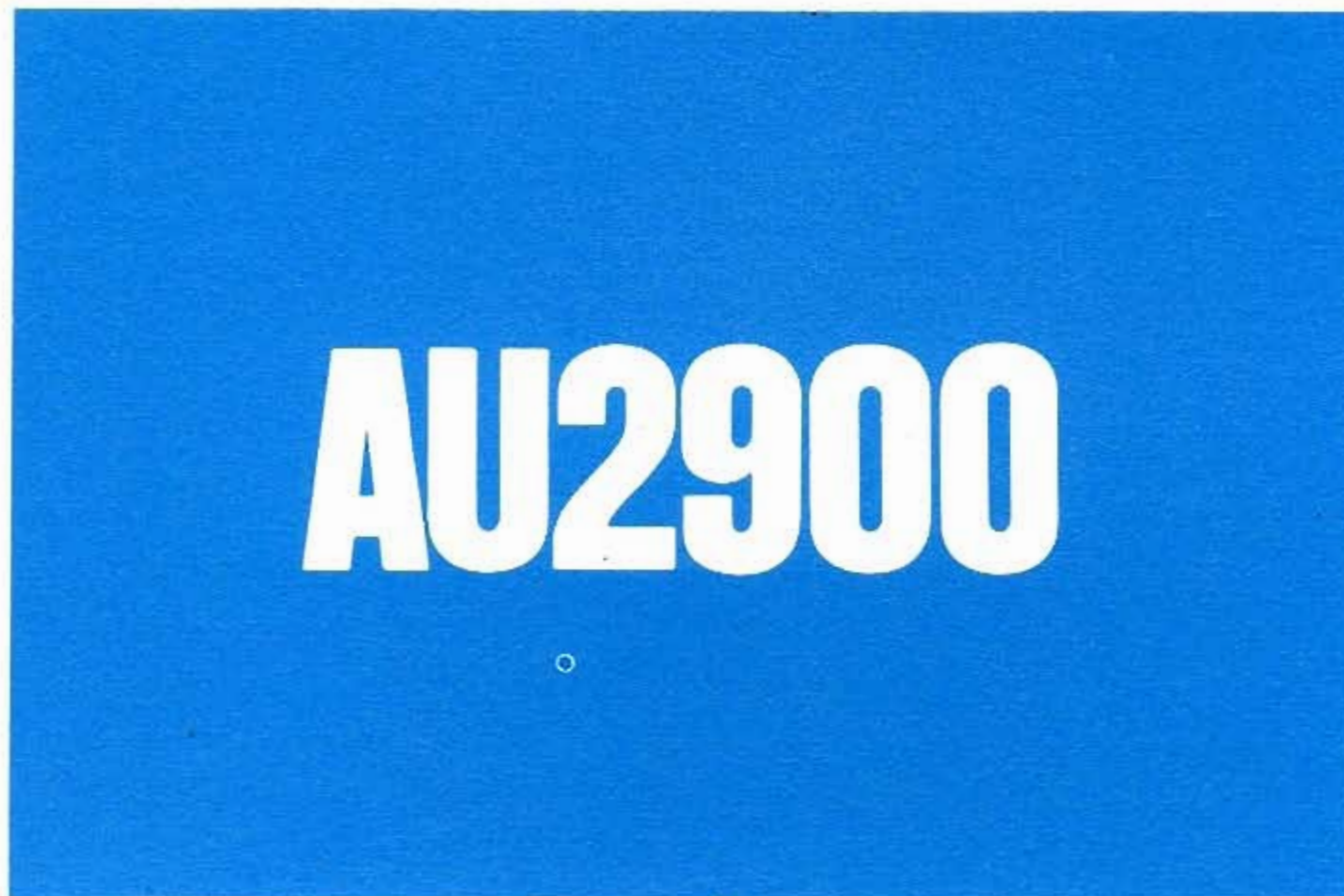
AU-3900



the transistors in the event of short circuits, etc. It uses an electronic relay instead of troublesome fuses, and automatically restores itself when the danger has passed. Also, since the dual plus/minus power supply system is used, you hear no "thumps" or scratching noise as you operate the power ON/OFF switch or other controls.

### Additional High-Quality Features

- TONE CONTROL circuit is the CR type with click-stop rotary controls (10 positions each) for BASS and TREBLE.
- AUDIO MUTING switch (AU-4900) instantly decreases output volume by 20dB.
- HIGH FILTER eliminates record surface noise, tape hiss, etc., without harming musical content.
- LOW FILTER is provided (AU-4900) to cut motor rumble and other low and sub-sonic noise.
- SPEAKER SWITCH lets you control two separate sets (A and B) of stereo speaker systems. It has four positions: OFF, A, B and A+B.
- SOURCE SELECTORS are the pushbutton type for easy selection of AUX, TUNER and PHONO program source inputs.
- TAPE MONITOR switch, also a button, is provided.
- OTHER FEATURES include a front-panel headphone jack, a LOUDNESS switch to compensate for highs and lows during low-level listening, a MODE switch with mono and stereo positions, two convenience AC OUTLETS (one "switched") and a large rear-panel ground peg.



### All the Power You Need

Sansui is proud to place trust in the true complementary OCL power circuit design, for after exhaustive tests of the many other types it has proven itself the best. In the AU-2900, this circuit has a dual-transistor differential amp in the initial stage to further guarantee that its output section delivers a low-distortion signal over a wide range: *continuous 15 watts per channel, min. RMS, both channels driven into 8 ohms, from 40 to 20,000Hz, with no more than 0.3% total harmonic distortion.*

### Dual Power Supply for All Major Circuits

Phono equalizer, tone control and power output amplifier circuits each draw their supply voltage from a newly-engineered dual plus/minus power supply, thus avoiding mutual interference. This arrangement also eliminates power on/off click noise and extends stability at all reproduction levels. Two big 3,300 $\mu$ F capacitors ensure maximum power headroom for dramatic dynamic range.

### Low-Noise Phono Equalizer

Unnatural harshness and dull, monotonous disc reproduction result from limitations imposed on dynamic range by phono equalizers which are not precise enough to handle the minute signals they receive from your phono cartridge. These disappointing results are entirely avoided in the AU-2900 with the use of direct-coupled, low-noise transistors

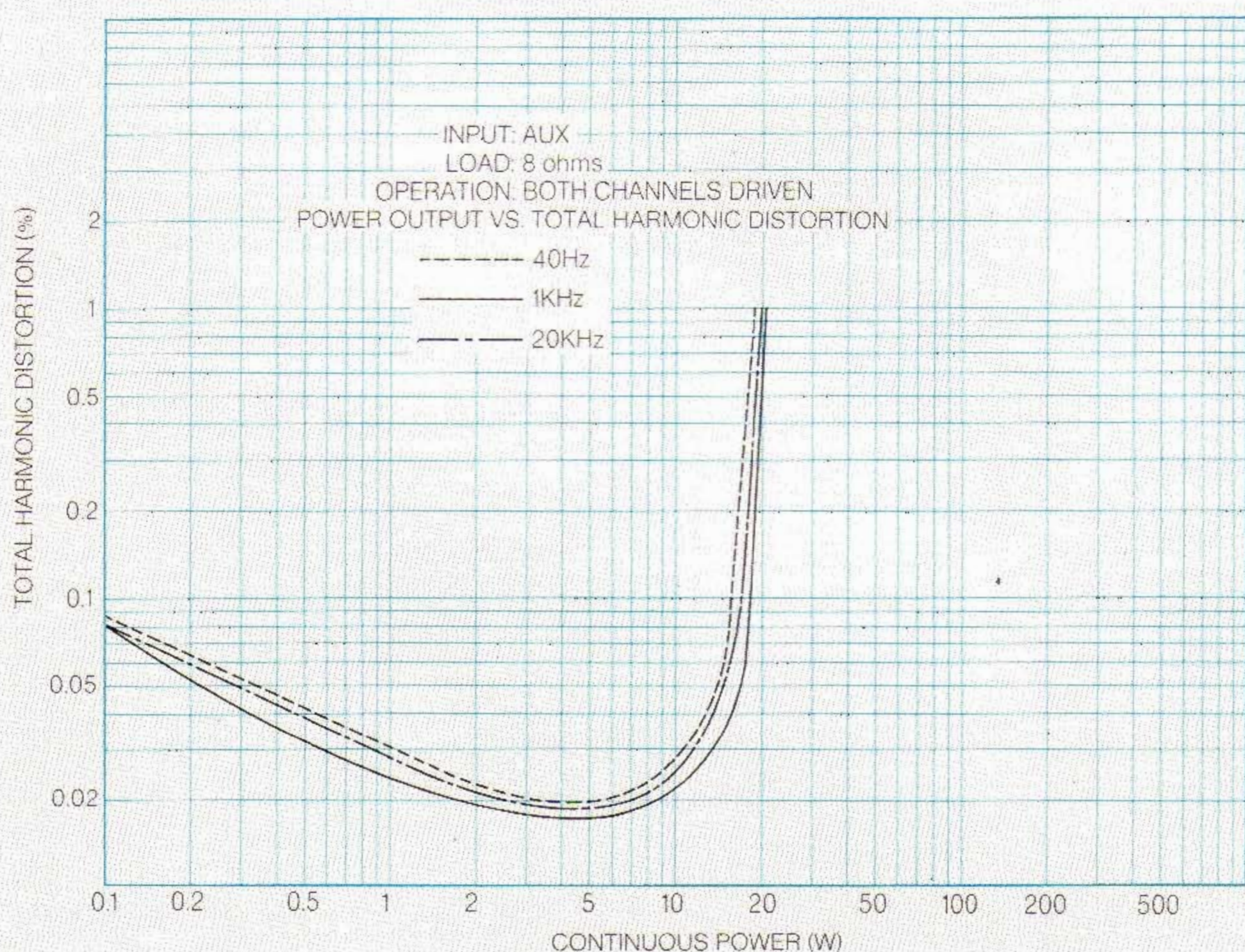
keeping RIAA deviation to a minimum while extending overload capacity to 170mV RMS in reference to the 2.5mV input.

### Stepped Tone Controls

The CR-type 2-stage PNP-NPN transistor amplifier in the AU-2900's tone control circuit features a high signal-to-noise ratio and precise response to even the smallest adjustment. The BASS and TREBLE tone controls each have individual steps for convenience in tailoring the overall acoustic of your listening room to your taste.

### Additional Features

- HIGH FILTER eliminates record scratch noise, tape hiss and other high-frequency noise without degrading musical response in the high/mid range.
- SPEAKER SWITCH lets you select System-A, System-B or Systems A+B. In the OFF position, only the stereo headphone circuit is on line.
- SOURCE SELECTORS for AUX, TUNER and PHONO are simple-to-use pushbuttons.
- TAPE MONITOR PUSHBUTTON for monitoring a connected stereo tape deck.
- LOUDNESS SWITCH for boosting high and low frequencies to achieve flat response at low listening levels.
- MODE SWITCH for MONO or STEREO.
- AC OUTLETS are provided for convenience; one is switched.
- LARGE GROUND PEG to provide secure turntable grounding for hum-free disc reproduction.









# SPECIFICATIONS

## AU-4900

### AUDIO SECTION

#### POWER OUTPUT (at rated distortion)

MUSIC POWER (IHF) 140 watts into 4 ohms at 1,000Hz  
100 watts into 8 ohms at 1,000Hz

#### CONTINUOUS RMS POWER BOTH CHANNELS DRIVEN

46 watts per channel into 4 ohms at 1,000Hz  
38 watts per channel into 8 ohms at 1,000Hz  
35 watts per channel into 8 ohms from 40 to 20,000Hz

#### TOTAL HARMONIC DISTORTION

OVERALL (AUX to speaker terminals) less than 0.15% at rated power output

#### INTERMODULATION DISTORTION (70Hz:7,000Hz=4:1 SMPTE method)

OVERALL (AUX to speaker terminals) less than 0.2% at rated power output

#### POWER BANDWIDTH (IHF)

10 to 40,000Hz at rated distortion

#### LOAD IMPEDANCE

4 to 16 ohms

#### FREQUENCY RESPONSE (at 1 watt)

OVERALL (AUX to power output) 10 to 40,000Hz, +0.5dB -1.5dB

#### RIAA CURVE DEVIATION (PHONO)

30 to 15,000Hz, +0.5dB -0.5dB

#### DAMPING FACTOR

approximately 50 at 8 ohm load

#### CHANNEL SEPARATION (at rated output 1,000Hz)

PHONO better than 60dB  
AUX better than 65dB  
TUNER better than 65dB  
TAPE MONITOR better than 65dB

#### HUM AND NOISE (IHF)

PHONO better than 75dB  
MIC better than 65dB  
AUX better than 90dB  
TUNER better than 90dB  
TAPE MONITOR better than 90dB

#### INPUT SENSITIVITY AND IMPEDANCE (1,000Hz for rated output)

PHONO 2.5mV 50k ohms  
MIC 2.5mV 10k ohms  
AUX 130mV 50k ohms  
TUNER 130mV 50k ohms  
TAPE PLAYBACK (PIN) 130mV 50k ohms

#### MAX. INPUT CAPABILITY (at 1,000Hz 0.2% total harmonic distortion)

PHONO 230mV RMS

#### RECORDING OUTPUT

TAPE (PIN) 100mV

#### CONTROLS

BASS +12dB, -12dB at 50Hz  
TREBLE +12dB, -12dB at 15kHz

#### LOUDNESS

10dB at 50Hz  
8dB at 10kHz

#### FILTERS

LOW -3dB at 100Hz (6dB/oct.)  
HIGH -3dB at 7,000Hz (6dB/oct.)

#### MUTING (AUDIO)

0dB, -20dB

### GENERAL

#### AC OUTLETS

switched max. 100 watts  
unswitched total 150 watts

#### SEMICONDUCTORS

29 Transistors; 1 Zener Diode; 18 Diodes; 1 LED.

#### POWER REQUIREMENTS

POWER VOLTAGE 100, 120, 220, 240V  
50/60Hz

#### POWER CONSUMPTION

MAXIMUM 240 watts (274VA)  
RATED 90 watts

#### DIMENSIONS

400mm (15<sup>3</sup>/<sub>4</sub>" W)  
120mm (4<sup>3</sup>/<sub>4</sub>" H)  
240mm (9<sup>1</sup>/<sub>2</sub>" D)

#### WEIGHT

6.7kg (14.8lbs) Net  
7.7kg (17.0lbs) Packed

## AU-3900

### AUDIO SECTION

#### POWER OUTPUT (at rated distortion)

MUSIC POWER (IHF) 84 watts into 4 ohms at 1,000Hz  
80 watts into 8 ohms at 1,000Hz

#### CONTINUOUS RMS POWER BOTH CHANNELS DRIVEN

26 watts per channel into 4 ohms at 1,000Hz  
25 watts per channel into 8 ohms at 1,000Hz  
22 watts per channel into 8 ohms from 40 to 20,000Hz

#### TOTAL HARMONIC DISTORTION

OVERALL (AUX to speaker terminals) less than 0.15% at rated power output

#### INTERMODULATION DISTORTION (70Hz:7,000Hz=4:1 SMPTE method)

OVERALL (AUX to speaker terminals) less than 0.2% at rated power output

#### POWER BANDWIDTH (IHF)

10 to 40,000Hz at rated distortion

#### LOAD IMPEDANCE

4 to 16 ohms

#### FREQUENCY RESPONSE (at 1 watt)

OVERALL (AUX to power output) 10 to 40,000Hz, +0.5dB -1.5dB

#### RIAA CURVE DEVIATION (PHONO)

30 to 15,000Hz, +0.5dB -0.5dB

#### DAMPING FACTOR

approximately 50 at 8 ohm load

#### CHANNEL SEPARATION (at rated output 1,000Hz)

PHONO better than 60dB  
AUX better than 65dB  
TUNER better than 65dB  
TAPE MONITOR better than 65dB

#### HUM AND NOISE (IHF)

PHONO better than 75dB  
MIC better than 65dB  
AUX better than 90dB  
TUNER better than 90dB  
TAPE MONITOR better than 90dB

#### INPUT SENSITIVITY AND IMPEDANCE (1,000Hz for rated output)

PHONO 2.5mV 50k ohms  
MIC 2.5mV 10k ohms  
AUX 130mV 50k ohms  
TUNER 130mV 50k ohms  
TAPE PLAYBACK (PIN) 130mV 50k ohms

#### MAX. INPUT CAPABILITY (at 1,000Hz 0.2% total harmonic distortion)

PHONO 200mV RMS

#### RECORDING OUTPUT

TAPE (PIN) 100mV

#### CONTROLS

BASS +12dB, -12dB at 50Hz  
TREBLE +12dB, -12dB at 15kHz

#### LOUDNESS

10dB at 50Hz  
8dB at 10kHz

#### FILTER (HIGH)

-3dB at 7,000Hz (6dB/oct.)

### GENERAL

#### AC OUTLETS

switched max. 100 watts  
unswitched total 150 watts

#### SEMICONDUCTORS

29 Transistors; 1 Zener Diode; 14 Diodes; 1 LED.

#### POWER REQUIREMENTS

POWER VOLTAGE 100, 120, 220, 240V  
50/60Hz

#### POWER CONSUMPTION

MAXIMUM 170 watts (194VA)  
RATED 60 watts

#### DIMENSIONS

400mm (15<sup>3</sup>/<sub>4</sub>" W)  
120mm (4<sup>3</sup>/<sub>4</sub>" H)  
240mm (9<sup>1</sup>/<sub>2</sub>" D)

#### WEIGHT

6.0kg (13.2lbs) Net  
7.0kg (15.4lbs) Packed

## AU-2900

### AUDIO SECTION

#### POWER OUTPUT (at rated distortion)

MUSIC POWER (IHF) 60 watts into 4 ohms at 1,000Hz  
56 watts into 8 ohms at 1,000Hz

#### CONTINUOUS RMS POWER BOTH CHANNELS DRIVEN

18 watts per channel into 4 ohms at 1,000Hz  
17 watts per channel into 8 ohms at 1,000Hz  
15 watts per channel into 8 ohms from 40 to 20,000Hz

#### TOTAL HARMONIC DISTORTION

OVERALL (AUX to speaker terminals) less than 0.3% at rated power output

#### INTERMODULATION DISTORTION (70Hz:7,000Hz=4:1 SMPTE method)

OVERALL (AUX to speaker terminals) less than 0.5% at rated power output

#### POWER BANDWIDTH (IHF)

10 to 40,000Hz at rated distortion

#### LOAD IMPEDANCE

4 to 16 ohms

#### FREQUENCY RESPONSE (at 1 watt)

OVERALL (AUX to power output) 10 to 40,000Hz, +0.5dB, -2.0dB

#### RIAA CURVE DEVIATION (PHONO)

30 to 15,000Hz, +0.5dB, -0.5dB

#### DAMPING FACTOR

approximately 30 at 8 ohm load

#### CHANNEL SEPARATION (at rated output 1,000Hz)

PHONO better than 57dB  
AUX better than 60dB  
TUNER better than 60dB  
TAPE MONITOR better than 60dB

#### HUM AND NOISE (IHF)

PHONO better than 75dB  
AUX better than 90dB  
TUNER better than 90dB  
TAPE MONITOR better than 90dB

#### INPUT SENSITIVITY AND IMPEDANCE (1,000Hz for rated output)

PHONO 2.5mV 50k ohms  
AUX 130mV 50k ohms  
TUNER 130mV 50k ohms  
TAPE PLAYBACK (PIN) 130mV 50k ohms

#### MAX. INPUT CAPABILITY (at 1,000Hz 0.5% total harmonic distortion)

PHONO 170mV RMS

#### RECORDING OUTPUT

TAPE (PIN) 100mV

#### CONTROLS

BASS +12dB, -12dB at 50Hz  
TREBLE +12dB, -12dB at 15kHz

#### LOUDNESS

10dB at 50Hz  
8dB at 10kHz

#### FILTER (HIGH)

-3dB at 7,000Hz (6dB/oct.)

### GENERAL

#### AC OUTLETS

switched max. 100 watts  
unswitched total 150 watts

#### SEMICONDUCTORS

25 Transistors; 1 Zener Diode; 6 Diodes; 1 LED.

#### POWER REQUIREMENTS

POWER VOLTAGE 100, 120, 220, 240V  
50/60Hz

#### POWER CONSUMPTION

MAXIMUM 110 watts (125VA)  
RATED 50 watts

#### DIMENSIONS

400mm (15<sup>3</sup>/<sub>4</sub>" W)  
120mm (4<sup>3</sup>/<sub>4</sub>" H)  
240mm (9<sup>1</sup>/<sub>2</sub>" D)

#### WEIGHT

5.7kg (12.6lbs) Net  
6.7kg (14.8lbs) Packed

Note: No AC outlet is provided with the models sold in Europe.

Design and specifications subject to change without notice for improvements.