

SANSUI AU666



SOLID STATE INTEGRATED AMPLIFIER Perhaps as complete and advanced a control amplifier as has ever been marketed in the medium-to-high power range. A product of Sansui's never-ending search for the ultimate in sound reproduction, the new 100 watt AU-666 incorporates an ideal design circuit rarely before found in any control amplifier, enabling the unit to deliver high fidelity sound with exceptional tone quality. Direct-coupled, fully complementary power amplifier section and the almost complete elimination of electrolytic capacitors as coupling capacitors explain the great success of this new unit. In addition, the AU-666 features triple tone control circuits for better bass, midrange and treble

control. The power bandwidth is a wide 10 to 40,000Hz, and distortion never exceeds a low 0.5%. The ample 100 watts in power translates into continuous power of 45/45 watts at 4Ω. The preamplifier section's frequency response is 20 to 40,000Hz +0.5dB, -1.5dB, and distortion is less than 0.1%. Separately usable pre- and main amplifier sections, the ability to power two sets of speaker systems at once, and to fit into an electronic crossover stereo system are other big pluses. Housed in a rich walnut cabinet, the AU-666 has all that it takes in design, engineering and performance, to provide stereo enthusiasts with years of great stereo listening.

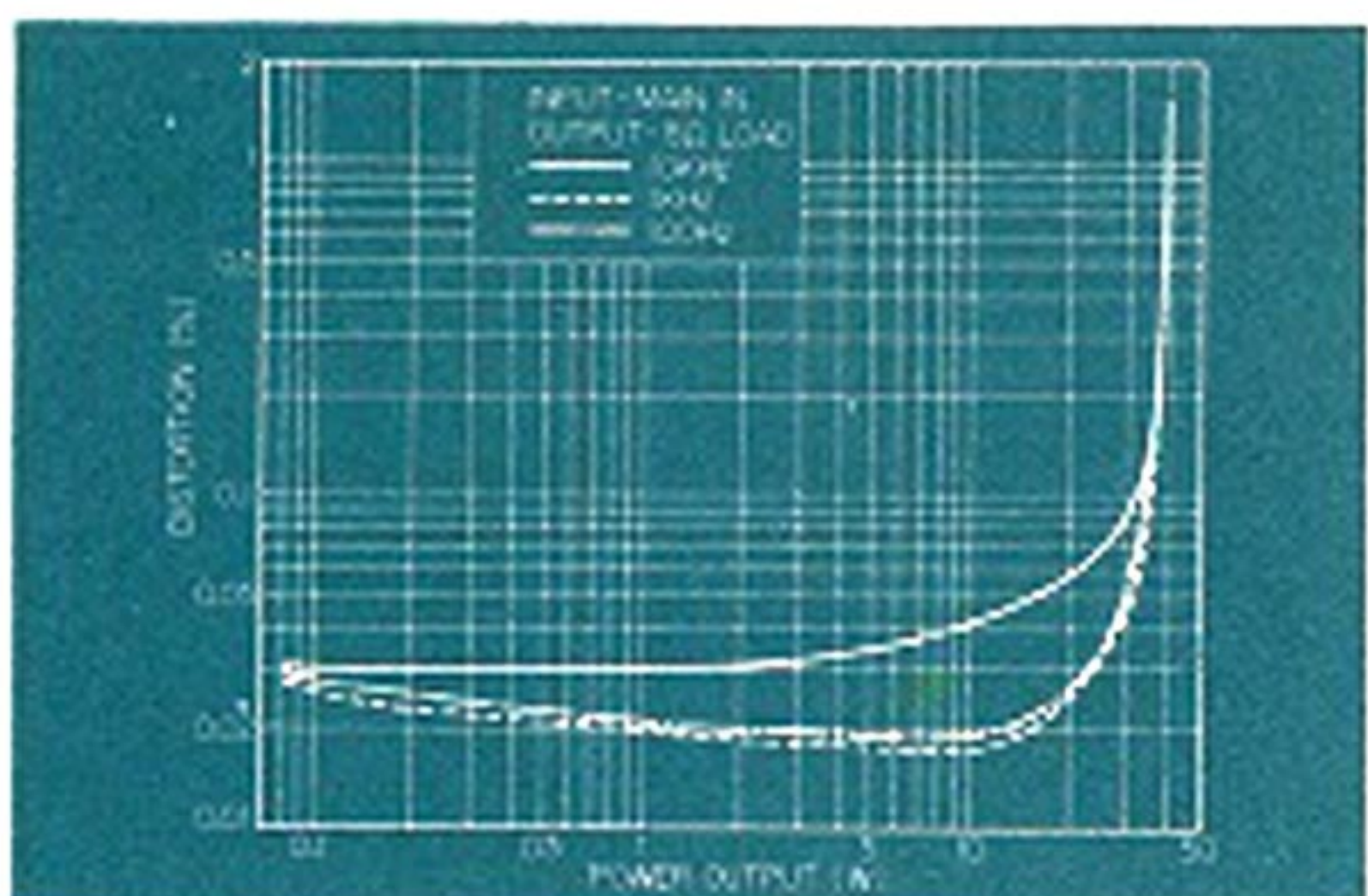


AU-666

DIRECT-COUPLED FULLY COMPLEMENTARY POWER AMPLIFIER: Distortion—even down through the deep lows—is done away with through this advanced circuit design. Coupling capacitors are a thing of the past. The new direct-coupling ensures uniform application of negative feedback through the entire audio frequency range, down to very low frequencies. Which in turn results in reducing intermodulation distortion to almost nil. The new design also makes for exceptionally smooth and flat frequency response, which is now extended to very low levels.



HIGH POWER OUTPUT, LOW DISTORTION: High power output—music power of 100 watts at 4Ω and continuous power of 45 watts per channel at 4Ω—characterize the new AU-666. With a power bandwidth that stretches from 10 to 40,000Hz, there is ample reserve power during sound reproduction from very low to very high frequencies. In addition, THD and intermodulation distortion are both reduced to less than 0.5%.



LOW-NOISE PREAMPLIFIER SECTION: The AU-666 utilizes carefully selected low-noise silicon transistors, both NPN and PNP types, in the preamplifier section, to reduce noise to an exceptionally low level. The result is a substantially expanded dynamic range and greater sound transparency for pianissimo notes.

ELECTROLYTIC CAPACITORS OUT: Electrolytic capacitors, with their poor phase character-

SPECIFICATIONS

POWER AMPLIFIER SECTION

POWER OUTPUT

MUSIC POWER (IHF)	100W at 4Ω 80W at 8Ω
CONTINUOUS POWER	45/45W at 4Ω 35/35W at 8Ω

TOTAL HARMONIC DISTORTION

less than 0.5% at rated output

INTERMODULATION DISTORTION

(60Hz: 7,000Hz=4:1 SMPTE method)
less than 0.5% at rated output

POWER BANDWIDTH (IHF)

10-40,000Hz at 8Ω

FREQUENCY RESPONSE (at normal listening level)

10-40,000Hz ±1dB

CHANNEL SEPARATION (at 1,000Hz rated output)

better than 60dB

HUM AND NOISE (IHF)

better than 100dB

INPUT SENSITIVITY

1V for rated output

INPUT IMPEDANCE

50kΩ

LOAD IMPEDANCE

4-16Ω

DAMPING FACTOR

40 at 8Ω

PREAMPLIFIER SECTION

OUTPUT VOLTAGE

MAXIMUM OUTPUT VOLTAGE 5V

RATED OUTPUT VOLTAGE 1V



istic at high frequencies, have been eliminated wherever possible in favor of direct coupling. But where they are absolutely necessary, either circuit impedance has been raised and mylar capacitors employed, or mylar capacitors have been utilized in parallel for improved response at high frequencies.

TRIPLE TONE CONTROLS: Since variable equalizers are needed to obtain truly accurate reproduction, Sansui has endowed the AU-666 with a triple tone control system, adding a mid-range circuit to those for bass and treble. Control of bass and treble in close steps and of midranges in even more limited steps thus provides for more accurate compensation for room acoustics or program source irregularities.



NEGATIVE FEEDBACK AMPLIFIERS: All amplifier stages, from the first to the final output stages, are regulated by negative feedback circuits to permit better frequency response, distortion and signal-to-noise characteristics.

SEPARABLE PRE- AND POWER AMPLIFIERS: The preamplifier and power amplifier sections can be used independently to achieve an electronic crossover stereo system when the Speaker Selector is set at the B or A+B position. Separate power amplifiers then drive the tweeter, midrange and woofer. The preamplifier section alone may also be used as an independent, high performance control amplifier for various purposes.

TOTAL HARMONIC DISTORTION

less than 0.1% at rated output voltage

FREQUENCY RESPONSE

20-40,000Hz ±1dB

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

better than 60dB

PHONO 1 AND 2

better than 50dB

TUNER AND AUX

better than 50dB

HUM AND NOISE (IHF)

better than 70dB

TUNER AND AUX

better than 80dB

INPUT SENSITIVITY (at 1,000Hz rated output voltage)

PHONO 1 AND 2 2mV (50kΩ)

MIC 3mV (50kΩ)

TUNER 180mV (100kΩ)

AUX 180mV (100kΩ)

TAPE MON (Pin) 180mV (100kΩ)

TAPE RECORDER (DIN) 180mV (100kΩ)

RECORDING OUTPUT (at 1,000Hz rated input voltage)

TAPE REC (Pin) 180mV

TAPE RECORDER (DIN) 30mV

EQUALIZER

PHONO RIAA NF type

MIC flat NF type

CONTROLS

BASS ±16dB at 30Hz

MIDRANGE ±5dB at 1,500Hz

COMPLETE PROTECTION CIRCUIT: The AU-666 not only employs extra transistors expressly to protect the delicate direct-coupled amplifiers from temperature fluctuations, but incorporates a special "differential amplifier stabilizing circuit" (Japanese patent pending) to stabilize its two-stage differential amplifier. In addition, no less than six quick-acting fuses are included for further protection in the unlikely event of a current overload.

RIPPLE FILTER CIRCUIT POWER SUPPLIES: The plus and minus power supplies of the power amplifier as well as the power supply of the pre-amplifier are all equipped with a special ripple filter circuit, which completely shuts out detrimental hum.

COMPLETE SPEAKER PROTECTION: The AU-666 is a vigilant guardian of valuable speaker systems. Equipped with an all-electronic DC detecting speaker protection circuit, a special ripple filter, another special circuit to eliminate the pop noise when the power is turned on, and an automatic DC balance stabilizing circuit, it effectively bars damaging Direct Current access to speaker systems.

FULL SYSTEM OF ACCESSORY CIRCUITS: All those accessory circuits essential in a quality control amplifier are here in the AU-666, including, two phono input circuits with an input impedance of 50kΩ each; DIN connector for tape recorder or deck; high and low filter circuits; loudness control circuit; tape monitor circuit; headphone jack circuit; muting switch, microphone input jacks and foolproof, one-touch speaker output terminals.

SOPHISTICATED, PROFESSIONAL STYLING: Finished in sophisticated black, with an expensive extrusion front panel and rich walnut cabinetry, the AU-666 is functional, professional and distinguished looking.

TREBLE	±15dB at 15,000Hz
LOUDNESS	+8dB at 50Hz, +3dB at 10,000Hz (volume control at -30dB)

SWITCHES	
LOW FILTER	-10dB at 20Hz
HIGH FILTER	-10dB at 20,000Hz
MUTING	OFF, -20dB
MODE	STEREO/MONO
TAPE MONITOR	SOURCE/PLAY BACK
SELECTOR	MIC/PHONO-2/PHONO-1/TUNER/AUX

SPEAKER SELECTOR	SYSTEM-A/SYSTEM-B/SYSTEM-A+B (Pre- and Power Amp. is separated at SYSTEM-B and SYSTEM-A+B)
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SEMICONDUCTORS TRANSISTORS: 31 DIODES: 5

POWER REQUIREMENTS POWER VOLTAGE 100/110/117/127/220/230/240/250V, 50/60Hz

POWER CONSUMPTION 240VA (max. signal)

DIMENSIONS: 135mm(5 1/4")H x 415mm(16 3/4")W x 278mm(10 9/16")D

WEIGHT: 9.9 kg (21.8 lbs.)

Design and specifications subject to change without notice for improvements.

SANSUI ELECTRIC CO., LTD. 14-1, 2-CHOME, IZUMI, SUGINAMI-KU, TOKYO 168, JAPAN/TELEPHONE: 323-1111/TELEX: 232-2076
SANSUI ELECTRONICS CORPORATION 55-11 QUEENS BLVD. WOODSIDE, NEW YORK 11377, U.S.A./TELEX: NEW YORK 422633 SEC UI
SANSUI AUDIO EUROPE S.A. DIACEM BUILDING, VESTINGSTRAAT 53-55, 2000 ANTWERP, BELGIUM/TELEX: ANTWERP 33538



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