Rated Output Power	
minimum continuous sine-wave power, from 20Hz-20KHz with no more than:	
0.3% THD (FTC) @ rated line voltage 2% THD (FTC) @ rated line voltage	1 Watt into 8 Ohms. 80 Watts into 8 Ohms.
0.3% THD (FTC) @ rated line voltage 2% THD (FTC) @ rated line voltage	1 Watt into 4 Ohms. 80 Watts into 4 Ohms.
0.3% THD (FTC) @ rated line voltage 2% THD (FTC) @ rated line voltage	1 Watt into 2 Ohms. 80 Watts into 2 Ohms.
Rated Output Voltage	
with continuous sine waves, from 20Hz-20KHz @ rated line voltage:	• 35.78 Volts peak into 8 Ohms, corresponding to 160 Watts peak. • 25.3 Volts peak into 4 Ohms, corresponding to 160 Watts peak. • 17.89 Volts peak into 2 Ohms, corresponding to 160 Watts peak.
Rated Output Current	
with continuous sine waves, from 20Hz-20KHz @ rated line voltage:	• 4.47 Amps peak into 8 Ohms, corresponding to 160 Watts peak. • 6.32 Amps peak into 4 Ohms, corresponding to 160 Watts peak. • 8.94 Amps peak into 2 Ohms, corresponding to 160 Watts peak.
Maximum Output Power	
With continuous sine-waves, from 20Hz-20KHz, with no more than 5% THD (FTC) @ rated line voltage:	• 90 Watts into 8 Ohms. • 90 Watts into 4 Ohms. • 90 Watts into 2 Ohms.
Maximum Output Voltage	
With continuous sine-waves, from 20Hz-20KHz @ rated line voltage:	• 37.95 Volts peak into 8 Ohms, corresponding to 180 Watts peak. • 26.83 Volts peak into 4 Ohms, corresponding to 180 Watts peak. • 18.97 Volts peak into 2 Ohms, corresponding to 180 Watts peak.
Maximum Output Current	
With continuous sine-waves, from 20Hz-20KHz @ rated line voltage:	• 4.74 Amps peak into 8 Ohms, corresponding to 180 Watts peak. • 6.71 Amps peak into 4 Ohms, corresponding to 180 Watts peak. • 9.49 Amps peak into 2 Ohms, corresponding to 180 Watts peak.
Small Signal Frequency Response	
at 1 Watt into 8 Ohms @ rated line voltage:	(-3dB) 4 Hz, 82 KHz.
Frequency Response	
at 80 Watt into 8 Ohms @ rated line voltage:	(-0.3dB) 20 Hz, 20 KHz.
Slew Rate	
Vout=70 Volts peak-to-peak of square-wave signal into 8 Ohms, F=10KHz @ rated line voltage:	10 Volts per microsecond
Rise Time	
Vout=70 Volts peak-to-peak of square-wave signal into 8 Ohms, F=10KHz @ rated line voltage:	6 microseconds
Noise	
Signal/Noise ratio ref. 2.83 Volts RMS into 8 Ohms (1 W): wideband A weighted Signal/Noise ratio ref. 25.3 Volts RMS into 8 Ohms (80 W): wideband A weighted	 83 dB 96 dB 106.3 dB 115 dB
IM Distortion (SMPTE: 4:1)	
from 1-80 Watts into 8 Ohms @ rated line voltage	no more than 5%
from 1-80 Watts into 4 Ohms @ rated line voltage	no more than 5%
from 1-80 Watts into 2 Ohms @ rated line voltage	no more than 5%
Voltage Gain	
	21.2 ± 2% or 26.5 ± 0.2dB.
Inputs	

Pseudo-balanced, non-inverting
 	
Single-ended, non-inverting
	3-pin XLR connector.
	
	Pin assignment:
	
	pin 1 = signal ground;
	pin 2 = non-inverting input;
	pin 3 = not connected.
	
	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 PREAMP.

Input Sensitivity	
	1.2 Volts RMS ± 2% for 80 Watts into 8, 4, and 2 Ohms.
Input Impedance	
	41 KOhms shunted by 470pF.
Outputs	
	Three sets of gold plated binding posts
Output Impedance	
at 1 KHz: from 20 Hz – 20 KHz:	typically 1.025 Ohms. typically $1.025^{+0.118/-0.025}$ Ohms.
Damping Factor	
at 1 KHz: from 20 Hz – 20 KHz:	typically 7.8 re: 8 Ohms. typically $7.8^{+0.2/-0.8}$ re: 8 Ohm.
Operating Temperature	
	-4 to +104 degrees Fahrenheit (-20 to +40 degrees Celcius) ambient.
Grounding	
	Grounding (earthing) post and chassis connected to mains earthing.
Power Supply	
nominal line voltage Input voltage range	100-240 Volts, 50/60Hz. ±10%.
	One power transformer, six separate power supplies. AC voltage intensively filtered by special RFI power line filter.
Power Supply Energy Storage	
	Approximately 235 joules.
Front/Rear Panel Controls and Chassis Connectors & Controls	
Front Panel Controls	LED control.
Rear Panel Connectors and Controls	POWER SWITCH AC POWER INLET AC MAINS FUSE, along with corresponding fuse holder Three sets of gold plated BINDING POSTS GROUNDING (EARTHING) POST, gold-plated
Chassis Connectors and Controls	MULTI-TURN TRIMMING POTENTIOMETER for adjusting the balance of the output stage MULTI-TURN TRIMMING POTENTIOMETER for setting the idle current of the output tubes The METER for measuring balance of the output stage The METER for measuring idle and maximum plate current of the output tubes, as well as for controlling the instantaneous value of plate current during operation Plate FUSE, along with the corresponding fuse holder 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 on the chassis)
Features	
AC voltage selector	100/120/220/230/240 Volts, internally switchable.
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 suspended in a special encapsulant which almost completely absorbs even the residual mechanical vibrations. This plays a significant role in assuring the absolutely unique clarity and micro-resolution during sound reproduction.
Meters	The amplifier is equipped with two meters which allow to control the balance and plate current of the output tubes.
Safety/Protection	"Soft-start" circuit protects power supply components from large in-rush currents when the amplifier is turned on. Unique delay time and electronic protection circuits secure the delay of approximately 2 minutes in supplying the plate voltage to the output tubes, which extends the tube life time and excludes the unpleasant thumps or transients in the system during the amplifier turn on/off. Thermal resetting fuse controls internal temperature of the power transformer. Threshold: 248 degrees Fahrenheit (120 degrees Celcius) Fuses: 6.25 Amps slo-blo for 100/120 volts (3 Amps slo-blo for 220/230/240 Volts); 2.5 Amps fast-acting
General	
Power Consumption	• Typically 200 Watts at idle. • 315 Watts @ rated output @ 8 (4,2) Ohms. • 325 Watts @ maximum output @ 8 (4,2) Ohms.
Burn-in Time at Factory:	Minimum 72 hours.
Recommended Burn-in Time in End-user's System:	Minimum 200 hours.
Warm-up time:	Minimum 50 minutes.
Dimensions	8.25 inches (21cm) high x 16 inches (40.64cm) wide x 20.375 inches (51.75cm) deep [add 1.3125 inches (3.3cm) of depth for handles located on rear panel]
Unit weight	70 Lbs (31.78 Kg).
Shipping weight	96 Lbs (43.58 Kg).
Tube Complement	• one 12AX7/ECC83, first amplification stage; • one 12BH7A, second amplification stage; • two 6C33C-B, output stage.