

Rated Output Power	
<p>minimum continuous sine-wave power, from 20Hz-20KHz with no more than:</p> <p>0.7% THD (FTC) @ rated line voltage 3% THD (FTC) @ rated line voltage</p> <p>0.7% THD (FTC) @ rated line voltage 3% THD (FTC) @ rated line voltage</p> <p>0.7% THD (FTC) @ rated line voltage 3% THD (FTC) @ rated line voltage</p>	<p>1 Watt into 16 Ohms. 18 Watts into 16 Ohms.</p> <p>1 Watt into 8 Ohms. 18 Watts into 8 Ohms.</p> <p>1 Watt into 4 Ohms. 18 Watts into 4 Ohms.</p>
Rated Output Voltage	
with continuous sine waves, from 20Hz-20KHz @ rated line voltage:	<ul style="list-style-type: none"> 24 Volts peak into 16 Ohms, corresponding to 36 Watts peak. 16.97 Volts peak into 8 Ohms, corresponding to 36 Watts peak. 12 Volts peak into 4 Ohms, corresponding to 36 Watts peak.
Rated Output Current	
with continuous sine waves, from 20Hz-20KHz @ rated line voltage:	<ul style="list-style-type: none"> 1.5 Amps peak into 16 Ohms, corresponding to 36 Watts peak. 2.12 Amps peak into 8 Ohms, corresponding to 36 Watts peak. 3 Amps peak into 4 Ohms, corresponding to 36 Watts peak.
Maximum Output Power	
With continuous sine-wave power, at 1 KHz, with no more than 5% THD (FTC) @ rated line voltage:	<ul style="list-style-type: none"> 21 Watts into 16 Ohms. 20 Watts into 8 Ohms. 20 Watts into 4 Ohms.
Maximum Output Voltage	
With continuous sine waves, at 1KHz, @ rated line voltage:	<ul style="list-style-type: none"> 25.92 Volts peak into 16 Ohms, corresponding to 42 Watts peak. 17.89 Volts peak into 8 Ohms, corresponding to 40 Watts peak. 12.65 Volts peak into 4 Ohms, corresponding to 40 Watts peak.
Maximum Output Current	
With continuous sine waves, at 1KHz, @ rated line voltage:	<ul style="list-style-type: none"> 1.62 Amps peak into 16 Ohms, corresponding to 42 Watts peak. 2.24 Amps peak into 8 Ohms, corresponding to 40 Watts peak. 3.16 Amps peak into 4 Ohms, corresponding to 40 Watts peak.
Small Signal Frequency Response	
at 1 Watt into 16 Ohms @ rated line voltage:	(-3dB) 3 Hz, 80 KHz.
Frequency Response	
at 18 Watt into 16 Ohms @ rated line voltage:	(-0.3dB) 20 Hz, 20 KHz.
Slew Rate	
Vout=48 Volts peak-to-peak of square-wave signal into 16 Ohms, F=10KHz @ rated line voltage:	15 Volts per microsecond
Rise Time	
Vout=48 Volts peak-to-peak of square-wave signal into 16 Ohms, F=10KHz @ rated line voltage:	2.5 microseconds
IM Distortion (60Hz/7KHz 4:1) SMPTE:	
from 1-18 Watts into 16 Ohms @ rated line voltage	no more than 8%
from 1-18 Watts into 8 Ohms @ rated line voltage	no more than 8%
from 1-18 Watts into 4 Ohms @ rated line voltage	no more than 8%
Voltage Gain	
	21.9 ± 2% or 26.81 ± 0.2dB.
Inputs	
Pseudo-balanced, non-inverting	3-pin XLR connector. Pin assignment: pin 1 = signal ground; pin 2 = non-inverting 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 PREAMP.
Input Sensitivity	
	0.775 Volts RMS ± 2% for 18 Watts into 16, 8, and 4 Ohms.
Input Impedance	
	41 KOhms shunted by 470pF.
Outputs	
	Three sets of gold plated binding posts
Output Impedance	
at 1 KHz:	typically 1.68 Ohms.
from 20 Hz – 20 KHz:	typically 1.68 ^{+0.14} Ohms.
Damping Factor	
at 1 KHz:	typically 9.5 re: 16 Ohms.
from 20 Hz – 20 KHz:	typically 9.5 ^{+0.7} re: 16 Ohm.
Operating Temperature	
	-4 to +104 degrees Fahrenheit (-20 to +40 degrees Celsius) ambient.
Grounding	
	Grounding (earthing) post and chassis connected to mains earthing.
Power Supply	
nominal line voltage	100-240 Volts, 50/60Hz.
Input voltage range	±10%. One power transformer, two filter chokes, five separate power supplies, including high current vacuum tube voltage regulator for the output stage. AC voltage intensively filtered by special RFI power line filter.
Power Supply Energy Storage	
	Approximately 160 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 setting the nominal value of plate voltage of the output tube MULTITURN TRIMMING POTENTIOMETER for setting the nominal value of plate current of the output tube Set of testpoints for measuring the value of plate voltage of the output tube by using the external voltmeter Set of testpoints for measuring the value of plate current of the output tube by using external voltmeter 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)
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.
Ultra wide-band output transformer	Custom-made output transformer especially designed for handling high current low impedance output tubes and assuring reproduction of audio frequencies from approximately 18 Hz to 70-80 KHz at any level of output power up to the maximum specified power.
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 Celsius) Fuses: 4 Amps slo-blo for 100/120 volts (2 Amps slo-blo for 220/230/240 Volts); 1.25 Amps fast-acting
General	
Power Consumption	225 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 200 hours.
Warm-up time:	Minimum 45 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	Amplifier section: <ul style="list-style-type: none"> one 12AX7/ECC83, first amplification stage; one 6N6P, second amplification stage; one 6C33C-B, output stage. <p>NOTE: we recommend replacing 6N6P tube about once a year to maintain the best performance of the amp</p> <p>Voltage regulation section:</p> <ul style="list-style-type: none"> one 6AK5/5654, voltage regulator tube; one 6C33C-B, voltage regulator tube; one 5651, voltage reference tube.