

RB-1590

Stereo Power Amplifier



2 x 350 Watts of
robust power



Class AB amplifier
design



Balanced XLR
inputs



High quality British
slit foil capacitors



Massive power supply using
Dual Toroidal Transformers

Power - refined, detailed, and plenty of it. Rotel's new Class AB stereo power amplifier is rated at 350 watts per channel into 8 ohms both channels driven. That is a lot of power, but larger listening rooms or less sensitive loudspeaker designs require it to bring out the best possible performance and attain realistic audio dynamics.

The impressive capabilities of this amplifier begin with a solid foundation consisting of twin, massive toroidal transformers custom made by Rotel. These transformers are just part of a rock-solid power supply that includes eight special British made BHC capacitors, known for their low loss and quick response times. These components will continue to supply all of the voltage and current requirements needed, even under the most difficult load conditions.

But power unrefined has never been a Rotel design goal. Every aspect of circuit design has been carefully considered and each component has been rigorously selected after extensive listening sessions. The circuit topography has been laid out in a true monoblock design ensuring maximum signal separation and improved stereo imaging.

Features include : XLR Balanced and RCA input connections, two pair of 5-way speaker binding posts, 12-volt trigger control, thermal protection circuitry, overcurrent, over-voltage protection circuitry, dual staged power on relay to reduce surge current and extend longevity, and a detachable IEC power cord all in a 5 U chassis with included rack ears.

The RB-1590 has been designed for the most discerning audio enthusiast and will provide the highest levels of audio performance.

RB-1590

Stereo Power Amplifier



SPECIFICATIONS

Power Output	350 watts / channel(8 Ohms) 648 watts / channel (4 Ohms)
Total Harmonic Distortion (20 Hz - 20k Hz, 8 ohms)	< 0.03%
Intermodulation Distortion (60 Hz : 7k Hz, 4 : 1)	< 0.03%
Frequency Response (± 0.5 dB)	10 Hz - 100k Hz
Damping Factor (1k Hz, 8 ohms)	300
Speaker Impedance	4 Ohms minimum (8 Ohms rated)
Signal to Noise Ratio (A weighting)	120 dB
Crosstalk / Separation	> 50 dB
Input Impedance / Sensitivity	
Unbalance	12k Ohms / 2.2 V
Balance	100k Ohms / 3.5 V
Gain	
Unbalance	27.5 dB (± 0.5 dB)
Balance	23.5 dB (± 0.5 dB)
Power Requirements	
USA:	120 volts, 60 Hz
EC:	230 volts, 50 Hz
Power Consumption	800 watts
Standby	< 0.5 watts
BTU (4 ohms, 1 / 8th power)	2100 BTU/h
Dimensions (W x H x D)	431 x 237 x 454 mm 17 x 9 $\frac{3}{8}$ x 17 $\frac{7}{8}$ ins
Front Panel Height	5U / 221mm / 8 $\frac{3}{4}$ ins
Weight (net)	38.1 kgs, 84 lbs