

RCI

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THE BGW 75 PROFESSIONAL POWER AMPLIFIER



Transient free turn-on and turn-off • Toroidal mains power transformer • New Circuitry featuring low noise discrete matched differential amplifier input • New Chassis design featuring improved thermal performance

- Individual front panel detented gain controls • 25 watts per channel (8 ohms, 20Hz-20kHz, 0.10% maximum THD); 75 watts monaural • Full complementary output devices with full 150 watt dissipation • Front panel headphone jack • Easy access stereo/mono switch • Separate circuit and chassis grounding rear panel barrier strip • Convertible 120V/240V (or 100V/220V) A.C. power.

The audio professional has come to depend on a BGW product. Recognized as the industry leader in power amplifier technology, only BGW offers the exclusive features, advanced technology and quality manufacturing that are demanded by the professional. These features, often imitated but never equaled, include: all steel chassis and covers, metal-cased output transistors, and toroidal mains transformer.

The new BGW Model 75 delivers 25 watts per channel at 8 ohms. The Model 75 is capable of 37.5 watts per channel into 4-ohm loads. The Model 75 is entirely new from input to output, the front end circuit incorporates our latest discrete differential amplifier circuit, an extremely well matched transistor pair, encapsulated into a single package. Lower noise and distortion as well as transient free turn-on/turn-off are all benefits of this new circuit design.

A toroidal power transformer is now being used. This new transformer eliminates mechanical noise and substantially reduces stray magnetic fields. The entire circuitry in the Model 75 is on one modular circuit board assembly; a minimum of hand wiring ensures unit to unit performance. The chassis and front panel are fabricated entirely of steel and welded for maximum strength. The output circuit of the Model 75 features full complementary metal cased output transistors. This ultra conservative design eliminates the need for any form of short circuit protection. More importantly, this lavish engineering approach allows the Model 75 to drive the most difficult loads. This allows the user complete confidence in the most challenging head phone systems, or loudspeaker loads. The Model 75 represents an unprecedented value in professional dual channel power amplifiers.

Specifications: BGW Model 75

TOTAL OUTPUT POWER—80 WATTS

The total output power is the actual power output as measured during final test. Test conditions: mono operation 8-ohm load 1kHz at 0.1% Total Harmonic Distortion, line voltage maintained at 120 volts RMS 60Hz. This power is equivalent to the sum of both channels when driving 4-ohm loads in the stereo mode.

OUTPUT POWER

25 watts minimum sine wave continuous average power output per channel with both channels driving 8-ohm loads over a power band from 20Hz to 20kHz. The maximum Total Harmonic Distortion at any power level from 250 milliwatts to 25 watts shall be no more than 0.10%.

37.5 watts minimum sine wave continuous average power output per channel with both channels driving 4-ohm loads over a power band from 20Hz to 20kHz. The maximum Total Harmonic Distortion at any power level from 250 milliwatts to 37.5 watts shall be no more than 0.15%.

75 watts minimum sine wave continuous average power output monaural driving an 8-ohm load over a power band from 20Hz to 20kHz. The maximum Total Harmonic Distortion at any power level from 250 milliwatts to 75 watts shall be no more than 0.15%.

Intermodulation Distortion:	Less than .03% from 250 milliwatts to rated power.
Small Signal Frequency Response:	+0, -3dB, 1Hz to 100kHz +0, -0.25dB, 20Hz to 20kHz
Hum and Noise Level:	Better than 102dB below 25 watts (unweighted, 20Hz to 20kHz.)
Input Sensitivity:	0.7 volt for rated output. Voltage gain 26dB (20 times).
Input Impedance:	15k ohms.
Damping Factor:	Greater than 200 to 1 at 8 ohms and 1kHz.
D.C. Offset Voltage:	Less than 10 millivolts (at output terminals).
Load Impedance:	Designed for any load impedance equal to or greater than 4 ohms.
Power Requirements:	100, 120, 200, 220 or 240 volts, 50-60Hz. 150 watts maximum.
Semiconductor Complement:	2 ultra-low noise matched differential pairs, 18 transistors, 12 diodes, 1 LED.
Dimensions:	1¾" by 19" standard rack front panel by 11½" deep. (4.45cm x 48.26cm x 29.21cm).
Weight:	14 lbs. net, 18 lbs. shipping 6.36 kg. net, 8.18 kg. shipping

All specifications and features are subject to change without notice.



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