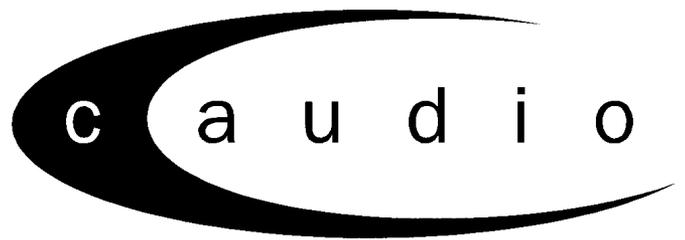


# GB Series



## Power Ratings

<b>GB202</b>	
Into 8 Ohms	145W
Into 4 Ohms	200W
Into 2 Ohms	250W
<b>GB402</b>	
Into 8 Ohms	260W
Into 4 Ohms	400W
Into 2 Ohms	570W
<b>GB602</b>	
Into 8 Ohms	370W
Into 4 Ohms	600W
Into 2 Ohms	840W

### Benefits of the GB Series

- Simple reliable design
- Heavy duty PSU incorporating oversized Toroidal transformer
- Clip Limiter and Subsonic Filters
- Efficient Forced Air Cooling System
- All Aspect Protection Circuitry
- Electronically Balanced inputs
- Extended Capability via AMPSAP Protocol

## Cost-effective high performance power amplifiers

The GB Series breaks new ground in affordable power. Primarily intended as a competitively priced, reliable and powerful work horse for the musical instrument market, the GB Series has quickly established itself as a must have amongst touring musicians. Such is the quality and practicality of the range that it has also found favour amongst a wide range of users including discos, clubs, bars, venues, theatre installers and cinema sound specifiers.

The implementation of the AMPSAP protocol means that sophisticated internally fitted system controllers are available to drive active loudspeaker systems.

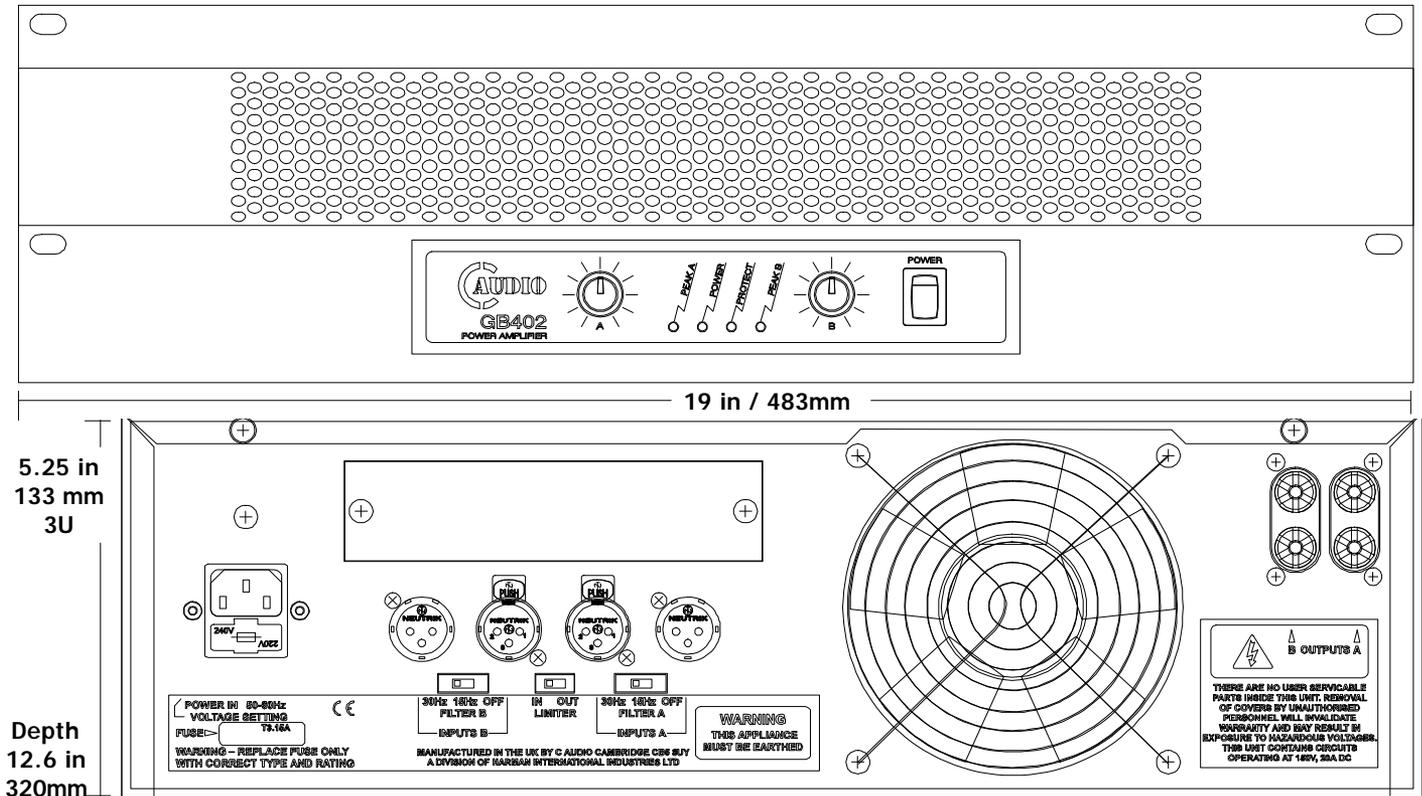
The GB Series may be bridged externally for higher power mono operation.

### Technical Specifications

Power Ratings	GB202	GB402	GB602
<small>Measured per channel, both channels driven at 1kHz to no more than 0.1% THD+N</small>			
8 Ohms	145Wrms	260Wrms	370Wrms
4 Ohms	200Wrms	400Wrms	600Wrms
2 Ohms	250Wrms	570Wrms	840Wrms
<small>Note: 2 Ohm capability is thermally limited</small>			
<b>Bridged Mono</b>			
8 Ohms	400Wrms	800Wrms	1200Wrms
<small>Measured per channel, both channels driven at 1kHz to no more than 1% THD+N</small>			
8 Ohms	155Wrms	275Wrms	400Wrms
4 Ohms	225Wrms	445Wrms	670Wrms
2 Ohms	260Wrms	610Wrms	880Wrms
<small>Note: 2 Ohm capability is thermally limited</small>			
<b>Sensitivity</b> <small>(for full rated power at 4 Ohms)</small>	0.725Vrms	1.025Vrms	1.26Vrms
<b>Frequency Resp.</b>	10Hz-40kHz, +0/-1dB		
<b>Damping Factor</b>	>200 (ref. 8 Ohms)		
<b>Hum and Noise</b>	-100dB (ref. rated 4 Ohm power, 20-20kHz)		
<b>Channel Separation</b>	60dB at 1kHz		
<b>Slew Rate</b>	17V per microsecond		
<b>Rise Time</b>	5 microseconds		
<b>Input Impedance</b>	20 kOhm balanced		
<b>Input Connectors</b>	Female XLR & Male parallel out (pin2 Hot)		
<b>Subsonic filters</b>	12dB/oct, 30Hz/15Hz/OFF		
<b>Clip Limiter</b>	Linear Optocoupler		
<b>Output Connectors</b>	Tamper Proof Binding posts		
<b>Output Circuit Type</b>	Bipolar Class AB		
<b>Power Requirement</b>	100-120 or 220-240Vac±20% 50/60Hz		
<b>Weight - Net</b>	13Kg	14Kg	15Kg
	30lbs	31lbs	33lbs
<b>Shipping - Gross</b>	17Kg	18Kg	19Kg
	37lb	38lbs	42lbs
<b>Dimensions</b>	483mm x 320mm x 133mm (3U)		
	19in x 12.6in x 5.25in (3 rack units)		

Trade Descriptions Act: C Audio have a policy of continued product improvement and accordingly reserve the right to change features and specifications without prior notice.

## Architect's and Engineers Specifications



### AMPSAP Options

The GB's Advanced Multi-tasking Primary Signal Access Port means that option cards may be fitted to implement basic crossover functions.

The AMPSAP card for the GB Series provides a stereo 2-way crossover, featuring a sub-sonic high pass filter on the LF outputs and variable constant directivity equalisation on the HF outputs.

The four outputs are provided on XLR connectors on the rear panel of the option card.

The amplifier shall have two channels, each capable of producing an output of 200/400/600 Watts into a 4 Ohm load with both channels driven. Each input shall be electronically balanced and have a CMRR of greater than 50dB at 1kHz, and effective filtration against RF and DC.

Full rated output with a 4 Ohm load shall be achieved by an input signal not exceeding 1.3Vrms per channel.

Each channel shall have a +0/ -1dB frequency response from 10Hz to 40kHz at 1W and full rated power into a nominal 4 Ohm and shall exhibit harmonic distortion not exceeding 0.01% at 1kHz. Hum and noise shall be at least 100dB below full rated output when measured over a 20Hz to 20kHz bandwidth with

50 Ohm input termination. Channel separation shall be in excess of 60dB at 1kHz. The amplifier shall be stable into any load configuration with any combination of open or grounded input connection, and shall protect itself and its loudspeaker loads against mismatched, short or open circuit loads, or any failure which might otherwise cause a DC offset voltage to appear at its output.

Muting circuits shall automatically disconnect the output loads during power-up and power-down and a self-resetting thermal sensing system shall be incorporated to protect the power transistors against over-temperature operation. A two-speed forced air cooling fan shall be incorporated, venting warm air out of

the front panel. Each amplifier channel shall have a rotary level control accessible from the front panel and carry an output signal clip indicator which accurately indicates clipping irrespective of output loading or mains supply voltage. LEDs shall be provided to indicate the status of AC power and the amplifier's own protection systems. Provision shall be made for fitting signal processing modules within the amplifier, compatible with C Audio's proprietary AMPSAP protocol. Audio input shall be via mirrored XLR connectors and outputs via tamper proof binding posts.

The amplifier shall be a model **GB 202/402/602** manufactured by C Audio, Potters Bar, England.