

## High Performance Class H Power Amplifiers

## Product Specifications DXA1800 DXA2400 GXA6000 GXA9000

### Audio power data

(Power figures are valid with both channels driven)

Watts into 8 ohm  
Watts into 4 ohm  
Watts into 2 ohm  
Watts into 8 ohm bridged mode  
Watts into 4 ohm bridged mode

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Watts into 8 ohm  
Watts into 4 ohm  
Watts into 2 ohm  
Watts into 8 ohm bridged mode  
Watts into 4 ohm bridged mode

20Hz-20kHz@0.1%THD (FCC)

560	750	420	580
860	1120	680	940
N/A	N/A	800	1180
1720	2240	1360	1880
N/A	N/A	1600	2360

1kHz@0.05%THD (EIA)

600	800	450	600
900	1200	730	1000
N/A	N/A	850	1200
1800	2400	1460	2000
N/A	N/A	1700	2400

### Product features

- \* Fast recovery power supplies with sufficient electrical storage capacitance to maintain ample energy reserves and ensure rigid power supply voltages feeding the power transistors.
- \* Automatic gain limiting to prevent excessive clipping of the output power waveform.
- \* Build in a strong steel chassis, electro-statically coated with anti-rust paint.
- \* Designed to safely operate in Bridged mode allowing a stereo amplifier to be used as a twice the power monoblock un 8 ohm.
- \* Proven design utilising high speed bi-polar power devices with extended safe operating area to ensure stable and reliable performance of the amplifier.
- \* Multi-sensory circuits to be effectively protect both the amplifier and speakers from becoming damaged because of over-heating or other abnormal operating conditions.
- \* Cool operating environments are assured for output devices, power supply capacitors and transformers with high air velocity forced by vary-speed fans units into independent heatsink conduits.

### Comprehensive protection

- \* Auto-gain limiting to prevent excessive output clipping.
- \* Auto-input level ramping to prevent damaging transient signal peaks from reaching the speakers.
- \* Sub & sonic frequency filters to prevent wastage of power and unnecessary heat built-up from the presence of inaudible spectrums of audio.
- \* Output stages with transparent "instant gain reduction loop" to prevent the amplifier dumping its power into load impedances below the technically feasible minimum.
- \* Auto-reset internal temperature sensors and fail-safe devices to prevent thermal runaway in the event of blocked airflow paths or other abnormal conditions.
- \* Protection from the effects of capacitor charging in-rush currents, DC voltages, shorted outputs and electrical spikes are all included.
- \* DXA2400 & GXA9000 feature totally independent power supplies and are specially designed to power passive Sherman HI-MID/SUB speaker combinations from a single amplifier. These amplifier/speaker setups offer stunning bass response without suffering any loss in clarity.



**High Performance Class H Power Amplifiers**

**Product Specifications**

**DXA1800 DXA2400 GXA6000 GXA9000**

**Audio performance data**

Frequency response @ 1 watt into 8 ohm		20Hz-20kHz +0, -0.2dB		
Total harmonic distortion @ full power into 8 ohm @ 1kHz	<0.03%	<0.02%	<0.025%	<0.02%
Intermodulation distortion @ full power into 8 ohm @ 60Hz & 7kHz	<0.006%	<0.004%	<0.005%	<0.005%
Damping factor @ 400Hz into 8 ohm	444 : 1	535 : 1	444 : 1	470 : 1
Slew rate (with input filter by-passed 35V / μsec)	24V / μsec	24V / μsec	24V / μsec	24V / μsec
Residual hum & noise ( A-weighted )	>-108dB	>-97dB	>-103dB	>-94dB
Inter channel cross talk ( A-weighted )		> -60dB		

**Audio input data**

Input CMRR (common mode rejection ratio) @ 1kHz		> -60dB		
Input voltage to develop full power into 4 ohm		1.1 Volt RMS		
Input impedance (active balanced)		>20kohm		
Input connector		Male XLR (pin 2 hot)		
Input cascade connector		Balanced 1/4" TRS		

**Audio output data**

Max. RMS output voltage	85.5 Volt	82 Volt	72 Volt	82 Volt
Max. PEAK output voltage	121 Volt	116 Volt	102 Volt	116 Volt
Output connector		Twist & lock SPEAKON		
Alternate output connector		High current Binding Post		

**Audio system data**

Input to output voltage gain ratio	36dB	37dB	35dB	36dB
System operating class		H		
System operating mode		Stereo / Parallel / Bridged		

**Electrical data**

AC current draw @ idle (no load connected) @ 220V	0.37 A	0.75 A	0.25 A	0.65 A
AC current draw @ 1/8 power into 4 ohm @ 220V	2.9 A	4 A	3.2 A	4.5 A
AC current draw @ full power into 4 ohm @ 220V	13.5 A	18.7 A	15.3 A	20.5 A
Transformer power rating (Effective power)	2500VA	3500VA	2900VA	3900VA
Transformer primary fusing (slow blow)	250V/15A	250V/2X10A	250V/15A	250V/2X10A
Power supply reservoir capacitance	80000 μF	65600 μF	80000 μF	160000 μF

**Thermal data**

Dissipated heat @ 1/8 power into 4 ohm	355 Kcal/hr	500 Kcal/hr	450 Kcal/hr	635 Kcal/hr
Fan air flow capacity at max speed		46 CFM		

**Mechanical data**

Chassis & lid (Electro-statically anti-rust coated)		16 gauge steel		
Dimension (HxWxD) in inches	3.5x19x17.8	5.25x19x20.7	3.5x19x17.8	5.25x19x20.7
Net weight	27Kgr	32Kgr	27Kgr	32Kgr
Shipping weight	30Kgr	35Kgr	30Kgr	36Kgr
Shipping cubic volume (CuMtr)	0.045	0.068	0.045	0.068

Data sheet ref. SMA-E101

Due to a policy of continuing improvement these product specifications might change without prior notice

DXA 2400 shown

