

Shermann®

DXA-2400



Power data (Figures are valid with both channels driven)

"Real-Power" into 8 ohm	(20Hz-20kHz @ 0.1% thd - FCC)	750w
"Real-Power" into 4 ohm	(20Hz-20kHz @ 0.1% thd - FCC)	1120w
"Real-Power" into 8 ohm	(1kHz @ 0.05% thd - EIA)	800w
"Real-Power" into 4 ohm	(1kHz @ 0.05% thd - EIA)	1200w

Audio performance data

Frequency response @ 1 watt into 8 ohm	20Hz-20kHz -0.2dB
Total harmonic distortion @ full power into 8 ohm @ 1kHz	<0.02%
Intermodulation distortion @ full power into 8 ohm @ 60Hz & 7kHz	<0.004%
Damping factor ratio @ 400Hz into 8 ohm	533 : 1
Slew rate (with input filter by-passed 35V / usec)	27V / usec
Residual hum & noise (A-weighted)	> -97 dB
Inter channel cross talk (A-weighted)	> -60dB

Audio input data

Input CMRR (common mode rejection) @ 1kHz	> -60dB
Input voltage to develop full power into 4 ohm	1.1 Volt RMS >20ko
Input impedance (actively balanced)	XLR-F (pin 2 hot)
Input connector Input cascade connector	XLR M (pin 2 hot)

Audio output data

Max. RMS output voltage	82 Volt
Max. PEAK output voltage	116 Volt
Output connector	SPEAKON x 2
Alternate output connector	Insulated Binding Post

Audio system data

Input to output voltage gain	37dB
System operating class	H
System operating mode	Stereo / Dual Mono

Electrical data

AC current draw @ idle (no load connected) @ 220V	0.75 A
AC current draw @ 1/8 power into 4 ohm @ 220V	4 A
AC current draw @ full power into 4 ohm @ 220V	18.7 A
Transformer power rating (Effective power)	3500VA
Transformer primary fusing (slow blow)	250V / 2x10A
Power supply reservoir capacitance	65600 uF

Thermal data

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

Mechanical data

Rack height	3U
Dimensions (W x D) mm	483 x 526
Net weight	32Kg
Shipping weight	35Kg
Shipping cubic volume (CuMtr)	0.068

Introduction

Shermann DXA amplifiers are built to the highest standards - *pure and simple!*

Stunning reserves of crystal clear output combine clarity, detail and integrity with "Real-Power" reserves to cover the widest range of requirements.

Applications

Primarily, the **DXA-2400** has been designed for high power bass drive due to its tremendous control of correctly designed LF drive systems however, further benefits of it's dual transformer construction may be realised when driving bi-amplified systems (Ch1 LF / Ch2 - Mid/top).

Design

A "no-frills" approach was adopted at the design stage with the intention of achieving maximum sound quality and undistorted "Real-Power" output levels.

Cable runs have been minimised to reduce hum pick up to unmeasurable levels whilst vent paths have been optimised for efficient heat dissipation.

Construction

Once again, the "no-frills" design allows simple, effective construction techniques to be incorporated.

Sturdy metal parts are utilised wherever possible including XLR sockets, handles and rear supports.

Although reliability is our keyword, in the unlikely event of component failure DXA amplifiers are easily serviced due to the advantages of modular assembly.



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