Shermann

DXA-1800

Power data (Figures are valid with both channels driven)

"Real-Power" into **8** ohm	(20Hz-20kHz @ 0.1% thd - FCC)	560w
"Real-Power" into **4** ohm	(20Hz-20kHz @ 0.1% thd - FCC)	860w
"Real-Power" into **8** ohm	(1kHz @ 0.05% thd - EIA)	600w
"Real-Power" into **4** ohm	(1kHz @ 0.05% thd - EIA)	900w

Audio performance data	
Frequency response @ 1 watt into 8 ohm	20Hz-20kHz -0.2dB
Total harmonic distortion @ full power into 8 ohm @ 1kHz	<0.03%
Intermodulation distortion @ full power into 8 ohm @ 60Hz & 7kHz	<0.006%
Damping factor ratio @ 400Hz into 8 ohm	444 : 1
Slew rate (with input filter by-passed 35V / usec)	24V / usec > -
Residual hum & noise (A-weighted)	108 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	85.5 Volt
Max. PEAK output voltage	121 Volt
Output connector	SPEAKON x 2
Alternate output connector	Insulated Binding Post
Audio system data	-
Input to output voltage gain	36dB
System operating class	H
System operating mode	Stereo / Dual Mono
Electrical data	-
AC current draw @ idle (no load connected) @ 220V	0.37 A
AC current draw @ 1/8 power into 4 ohm @ 220V	2.9 A
AC current draw @ full power into 4 ohm @ 220V	13.5 A
Transformer power rating (Effective power)	2500VA
Transformer primary fusing (slow blow)	250V / 15A
Power supply reservoir capacitance	80000 uF
Thermal data	-
Dissipated heat @ 1/8 power into 4 ohm	355 Kcal / hr
Fan air flow capacity at max speed	46 CFM
Mechanical data	-
Rack height	2U
Dimensions (W x D) mm	483 x 453
Net weight	27Kg
Shipping weight	30Kg
Shipping cubic volume (CuMtr)	0.045

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-1800** has been designed for high power full-range drive due to its amazing clarity and detail across the audio spectrum.

This model is also perfectly at home within 2, 3 or 4 way systems driving any specified frequency band.

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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