

## DAMP 4 Amplifier

- \* Proven SEAPAN Class D Amplifiers Design
- \* Four 1250W Bridgeable Channels
- \* 2 Ohm Capability
- \* 70V / 100V Line Options
- \* 96kHz DSP Processing
- \* Extremely Rugged
- \* Networked Control and Monitoring
- \* Configure & Leave' Operation
- \* The perfect drive system for All SEAPAN DCC Sound Systems



### **Digital Signal Processing**

Each pair of SEAPAN DAMP 4 channels contains a complete 96kHz digital loudspeaker management and control subsystem.

This built up around an extremely powerful state-of-the-art floating point SHARC based DSP engine. Critical components in the audio path, so important to the sound quality, have been selected with great care and after extensive listening tests. Our choices have resulted in performance that in independent assessment equals the finest stand alone processors.

A simple PC connection allows customers to manipulate DSP parameters so as to optimise the performance and develop settings for particular applications. These settings are stored internally so a PC is not necessary for operation.

The SEAPAN DAMP 4 amplifier performs reliably while with great transparent audio properties

## **Technical Specifications**

Input impedance:	6.7k Ohm unbalanced 10k balanced
Max Input level:	+20dBu
Frequency Resp:	10Hz - 20kHz +/-0.25dB 5Hz - 30kHz +/- 1dB
Output noise:	-110dB A weighted
Ref max output,	22kHz BW
Distortion:	<0.05% (1kHz, -3dB output. 22kHz BW)

## **Protection systems**

Over Current	Initially limiters applied, persistent over current causes shutdown.
Brownout	Automatic protection & recovery
Mains	Inrush current limiting
DC fault	shut down power cycle to recover

## **Indicators**

per channel	Sig, -10dB, Limit
per channel pair	Power, Protect, Bridge, Remote,

## **AMPLIFIER SECTION**

Number of channels	Four
Output power (RMS program).	1250W RMS / ch. 20Hz-20kHz all channels driven into 2 Ohms
Slew rate	>80V/us
Damping factor	120 ref 8 Ohms
Efficiency	>90% typical

## **POWER SUPPLY**

Type	High current, high freq. switch-mode
Efficiency	>90% typical
Input voltage	115v / 230v nominal +/- 10% Input voltage selection
Mains frequency range	45 - 65Hz
Other features	Automatic soft-start Automatic brownout recovery Automatic over-voltage protection Remote shutdown over emPad network
Operating temperature range	0 to +40°C
Relative humidity range	0 to 80% (non-condensing)

## **THERMAL**

Two variable speed fans	Airflow is from front to rear
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## **PHYSICAL**

Height	2U, 88mm
Width	19", 482mm
Depth	14", 360mm
Weight	12.5 Kgs

## **CONNECTIONS**

Mains	Neutrik 'Powercon'
Audio input (per channel)	3 pin female XLR 3 pin male XLR for link
Output (per 2 channel)	Neutrik NL4 'Speakon'
Network (input & link)	RJ45 Auxiliary facilities
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Continued R&D leads to innovation & improvements.  
In the light of implementing such improvements,  
emPad reserves the right to change published specifications and parameters without prior notice..

This product complies with the EMC Directive (89/336/EEC) as issued by the Commission of the European Community. Compliance with these directives implies conformity with the following European standards: EN55103-1 Electromagnetic Interference (Emission) EN55103-2 Electromagnetic Susceptibility (Immunity) It also meets the requirements of part 15B (EMC). This product is intended for operation in the E2 (commercial & light industrial) and E3 (urban outdoors) Electromagnetic Environments.