

LINE ARRAY Series

Self-Powered ultra high-SPL subwoofer for line array
PC remote controlled with networking

Audio-Performance SUB418-amp

The SUB418-amp is a compact, self powered subwoofer cabinet designed to extend the frequency range and power bandwidth of Audio Performance full-range loudspeaker systems. With a cut-off frequency of 25Hz, the SUB418-amp is made for applications where the reproduction of sub frequencies is of importance (music, sound effects). It consists of one long excursion 18-inch cone driver mounted in a heavily braced vented enclosure.

The SUB418-amp built-in electronics package features a new lightweight, four channel class D audio power amplifier (D2SP) designed specifically for Self-Powered products.

The D2SP amplifier module is a sophisticated switch mode power supply, class-D amplifier design capable of

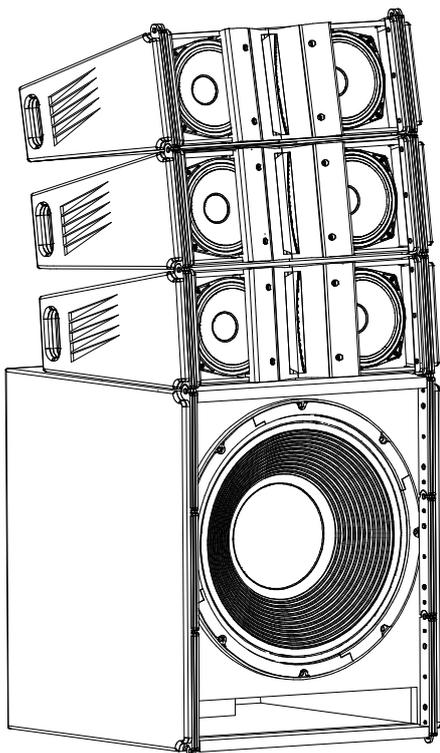
delivering more than 1 x 2'500W RMS (bridged mode) into 4 Ohms and 2 x 1'250W RMS into 2 Ohms and adding only 5Kg to the weight of the cabinet.

It incorporates a complete networked 96KHz digital signal processing (DSP) providing loudspeaker specific filtering, EQ, delays and protection functions.

Sophisticated amplifier protection systems continuously monitor all aspects of performance to ensure that the amplifier and associated drivers are always working within their safe operating areas.

With an extraordinary average efficiency of 90%, the system is practically service free.

PodWare PC application provides real time control and monitoring functions to either single units or whole networks of Audio-Performance self-powered loudspeakers through Ethernet CAT5 cable.



audio-performance sa
route de cossonay 36c
1040 echallens
switzerland

AUDIO
PERFORMANCE
power to perform

IDEAL FOR

Touring
Concerthall
Discotheques
Sound effects

The SUB418-amp subwoofer system is ideal for any professional application requiring accurate low frequency reinforcement at high sound pressure levels

Special Features

Very high power
Self powered

25Hz cut-off frequency
optimal LF coupling

Ethernet
Networking

PC remote controlled

development & manufacturing of professional
loudspeaker systems & electronics
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LINE ARRAY Series

SUB418-amp Specifications

ACOUSTICAL

Frequency response (1) 25Hz - 150Hz
Maximum peak SPL (2) 137dB

TRANSDUCERS

Low frequency 1 x 18 inch ND, ferrofluid cooled, long excursion
low distortion cone driver

AMPLIFIER 1 (SUB418)

Output power (bridge) (5) 2'500W RMS
THD, DIM, SMPTE < 0,05%

AMPLIFIER 2 (DLA6-C)

Output power (low) (5)..... 1'250W RMS
Output power (high) (5)..... 1'250W RMS
THD, DIM, SMPTE < 0,05%

AUDIO INPUT

Type..... Analog Differential balanced input circuit
Digital via Ethersound Network
Connectors..... Female XLR; Male XLR loop
Nominal impedance..... 10K Ohm
XLR wiring..... 1: GND, 2: positive, 3: negative

DSP

Sampling rate 96KHz
Basic delay 0.76 ms
Dynamic range 115 dB

REMOTE / NETWORK

Type PC and PodWare Software
Connector RJ45 female, RJ45 loop

AC power

Connectors..... PowerCON TRUE1, in; PowerCON TRUE1, loop
Input voltage (EU)..... 115V - 230V nominal +/- 10%
Input voltage selection Automatic

MECHANICAL

Enclosure: 18 & 24mm plywood
Finish Black epoxy painted
Dimensions (W x H x D) 494 x 591 x 540mm
Grill Removable perforated 1,6mm steel, foam cover
Weight 55Kg
Rigging 3x Points Patent Pending

