

High Output, self powered (Class D switch mode power supply), two-way cabinet.DSP (FIR technology) controlled with 1500W amplification, 136db SPL.



Key features

- Class D powered (bi-amplified)
- Integrated Digital Processing
- Internal temperature control
- Electronic protection
- FIR linear phase filtering
- Online monitoring available
- Two way active system

Applications

- Theatres & auditoriums
- Houses of worship
- Small / middle sized clubs
- Front fill / side fill reinforcement
- Smaller live stages / events
- Portable sound reinforcement

General description & specifications

The versatile ADP-12 is part of the ADP Self powered, DSP integrated Series. It has been designed to offer the utmost sound reinforcement reliability, incorporating the latest acoustical and electronical technology and delivering incredible, dynamic sound.

The ADP-12 is an extremely high power, two-way full range cabinet providing exceptional performance. For the low-mid frequencies it uses one 12" (4" interleaved sandwich voice coil) neodymium transducer with nomex cones and suspension. The high frequencies are looked after by a 1.4" compression driver with a 4" titanium diaphragm mounted on a 80° x 50° constant directivity rotatable aluminium horn.

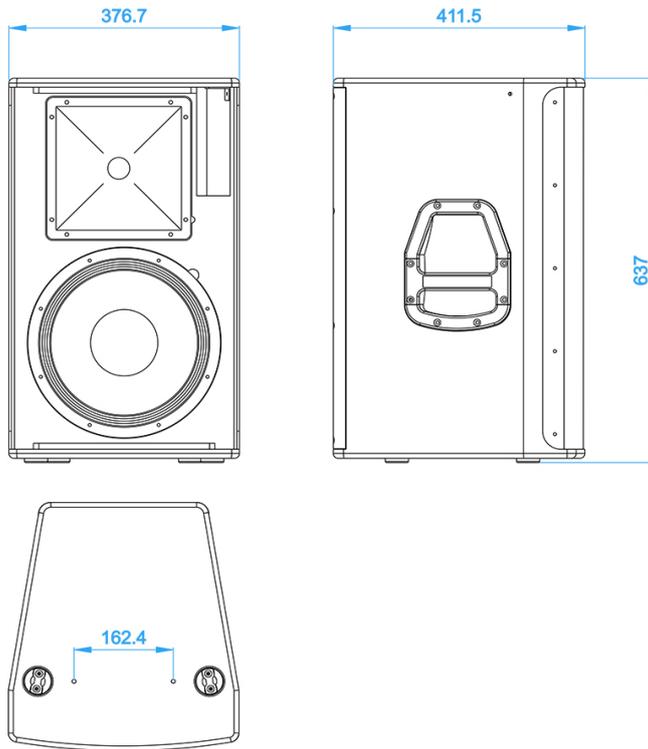
The ADP-12 is powered with a total of 1500W of class D amplification, 750W for the low/mid frequencies and 750W for the high frequencies. Each cabinet has a DSP integrated for system protection and optimization. This DSP applies linear phase (FIR) and classic crossovers. Other features include temperature sensor, Ethernet options and many more.

The compact ADP-12 has an unbeatable power to size ratio, there is no need for external amplification racks, is very light weight and is the ideal solution for portable or fixed sound reinforcement. A variety of rigging options make the ADP-12 easy to set-up in minimal time. To extend the low frequency response, the ADP-18S or ADP-12S sub bass cabinet can be used.

Technical Data

Components	
• LF/MF	1 x 12" neodymium (4" Interleaved Sandwich voice coil)
• HF	1.4" titanium diaphragm driver
Frequency range	60 Hz – 20 KHz (-10dB)
Frequency response	65 Hz – 18 KHz (± 3dB)
Max SPL	133 dB / 136 dB peak
Coverage angle	80° H x 50° V rotatable horn
Power	1500 W Class D LF amplifier: 1 x 750 W HF amplifier: 1 x 750 W
Processing	56 bit Lynx DSPB-22 with FIR filters
Cabinet adjustment	Back panel LCD
Control connections	XLR / Ethernet (OCS) optional, USB (DSP programming)
AC Power	230V / 115V selectable. 50/60 Hz 5A
AC connections	16A Neutrik powerCon TRUE1 with looping output
Finish	Polyurea coating, black colour
Material	15 mm premium birch plywood
Dimensions	637 x 376 x 411 mm (H x W x D)
Weight	28 kg (62 lbs)

Dimensional Drawing



Accessories

	CS-1215	Cluster support for ADP-12
	SC-FC1	Lightweight install stud for the ADP-12
	VSM-V1	35mm speaker mounting top hat for ADP-12 with the ADP-18S or ADP-12S
	WB-03	Wall bracket for the ADP-12 for top hat insertion
	FD-ADP12NL	Rain cover for ADP-12

Amplification & DSP

Bi-amplified Class D with switching power supply. Includes one 750W power module for the 12" transducer and one 750W power module for the HF driver.

The amplification far exceeds the transducer need thus resulting in high output, high damping factor and extremely low levels of distortion.