

Features

Birch Plywood Box
Two-way internal Power Amp Module
12" Woofer + 1" Compression Driver

Applications

Medium and Large PA
Open Sites
Audio Visual
Fixed Installation

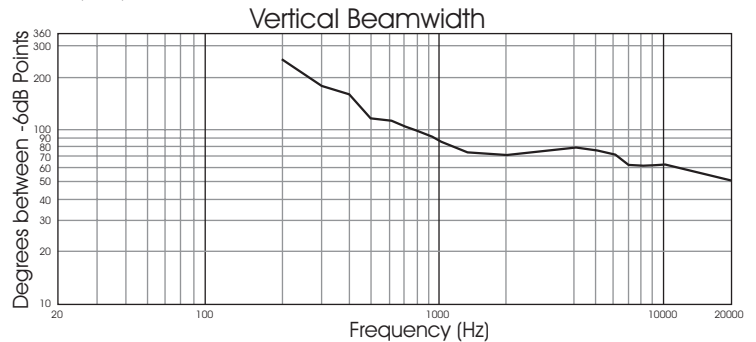
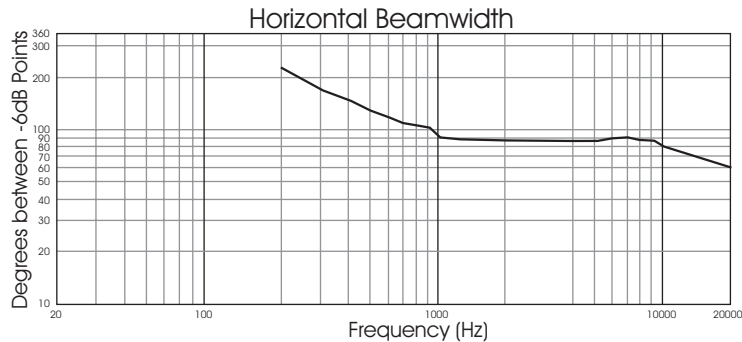
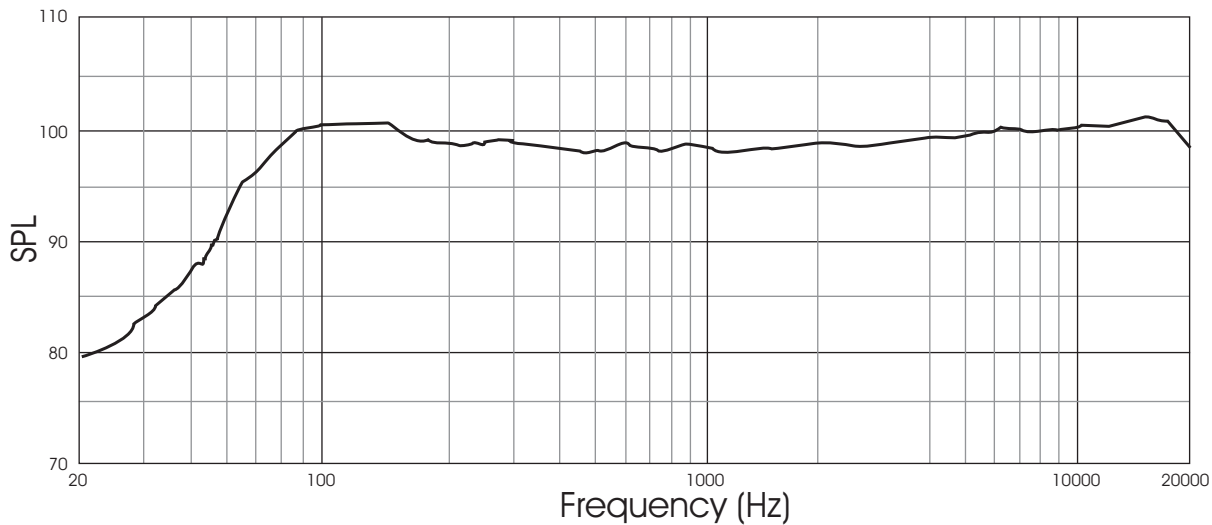
Specifications

1000+100 Watts RMS
130 dB Max Spl @ 1 mt
65Hz - 18KHz +/- 4 dB
Female XLR and 1/4" Jack bal. Input
52x32x40 cm 21Kg
90°h x 70°v Dispersion



The F12-P is a full-range mid-size self-powered two-way loudspeaker enclosure incorporating integral amplifiers and control electronics. The use of sophisticated electronic processor ensures an exact match between amplifier and speaker for optimum acoustic output, and offers exceptional ease of use by having the entire electro-acoustic system in one convenient, easily transportable physical package. It is designed for use in mobile speech and music sound reinforcement applications as well as in a wide variety of fixed installations. The loudspeaker consists of a front loaded 12" woofer and a 1" high frequency compression driver on an elliptical 90°H x 70°V waveguide horn. The asymmetrical trapezoidal cabinet has been designed to provide an ideal floor monitoring position. The rear panel carries a fully integrated Class AB, two way, amplifier and control electronics module, which is field removable for servicing. The cooling of power amplifier section is provided by an 80 mm fan. This module also incorporates high performance dual limiters set to optimize the continuous power and excursion threshold for the specific loudspeaker model. The cabinet includes a pole mount socket for use with 35mm poles and speaker stands. M8 rigging points are provided on the top, bottom and sides for use with M8 special XXL flying kit. The cabinet is constructed from 18mm birch plywood, screwed and glued together for maximum strength and rigidity, and includes unique steel mesh grille. It is finished in durable black semi-matt textured paint.

L'F12-P è una cassa medio alto amplificata a due vie, che integra un amplificatore controllato elettronicamente. L'utilizzo di componenti elettronici sofisticati consente una perfetta resa dell'amplificatore con i componenti driver e woofer, il tutto assemblato in modo da aver la miglior resa nel minor spazio possibile. Progettata infatti per lavorare in conferenze, teatri, installazioni audio e video e tutte quelle situazioni dove è richiesta molta potenza con un minimo ingombro. La cassa è composta da un cono da 12" per le basse e da un driver a compressione da 1" caricato a tromba, 90° h X 70° v, per le alte. Sul pannello posteriore abbiamo montato l'amplificatore in classe AB, raffreddato da una ventola da 80mm che ne garantisce il corretto raffreddamento in ogni situazione. Inoltre questo amplificatore è dotato di due limiter settati a garantirne la sicurezza dei componenti e la loro resa migliore. Nella parte inferiore troviamo una flangia per aste da 35mm, mentre i punti di aggancio M8 sono posti sopra, sotto e a i lati, studiati per essere utilizzati con l'M8 XXL special flying Kit. La cassa è costruita in multistrato di betulla da 18mm, incastrato ed incollato insieme, ad assicurarne la massima resistenza e rigidità, sul frontale abbiamo in fine una griglia in metallo a protezione dei componenti, il tutto è verniciato in nero semi lucido.



Technical Specifications

Acoustic

Power Handling 1000+100 watt RMS¹

Max Power 1200 watt RMS²

Impedance 8 ohm

Operating Frequency Range 50 Hz - 20 KHz³

Frequency Range 50Hz-18 KHz +/-4 dB⁴

SPL 1W/1mt 99 dB⁵

Maximum SPL 130 dB⁶

Coverage

Horizontal 90° (averaged on nominal bandwidth)

Vertical 70° (averaged on nominal bandwidth)

Cross Over

Type 24 dB/oct slope with Phase Correction

Frequency 1.8 KHz⁷

Transducers

Low Frequency 12" Neodymium Woofer with 4" Voice Coil

High Frequency 1" Neodymium Compression Driver

Input

Connector Balanced two XLR and balanced 1/4" Jack

Wiring The two connectors are wired in parallel mode, it is possible to use one of them as input and the other as parallel out to feed another active speaker.

Amplifier

Type Two way Dual Bridge Class A/B

Power 1000+100 Watt RMS⁸

Protections Limiter, Over-current, over-temp., short-circ.

AC Power

Operating Range 210 VAC - 240 VAC 50 Hz

Max Continuous and Burst Current 4A (>10 sec.), 8A (<1 sec.)

1. Power handling is measured following AES standard conditions: Transducers driven continuously for two hours with a band-limited noise signal having 6 dB of crest factor.
2. Max power is the maximum applicable power for a musical signal, the ref signal is the one proposed by EIAJ standard.
3. Recommended maximum operating frequency range. Response depends on loading conditions and room acoustics.
4. Free field measured with 1/3 octave frequency resolution at 2 meters.
5. Measured @ 4 mt then scaled @ 1 mt.
6. Measured with audio source @ 1 meter.
7. This is the frequency in which the transducers produce the same sound pressure level (measured @ 2 meters).
8. Amplifier wattage rating is based on the maximum unclipped burst sine wave RMS voltage that the amplifier will produce into the nominal load impedance.

New materials and design are introduced into existing products without previous notice.
Present systems may differ in some respects from those presented in this brochure.