



# XP12

## Compact Self-Powered Two-Way System

### Features

- Compact self-powered, portable two-way system
- 1300W of Class D amplification
- Global power supply with PFC (Power Factor Correction)
- Onboard DSP with rotary control interface
- Multi-function display for metering, control and function selection
- Three-channel mixer
- Three-band channel EQ, plus HPF (Ch1/2)
- Independent LF and HF peak and RMS limiters
- Three speaker mode and voicing presets
- Bluetooth® control and streaming option
- Durable plywood enclosure
- User-rotatable 80° x 50° HF horn
- Vertical and horizontal mounting options
- Symmetrical multi-angle enclosure for PA or stage monitor use
- Screw-free, cloth-backed steel grille
- Integral ergonomic handles
- Mounting options include pole-mount, wall bracket and flying inserts

### Applications

- Portable sound reinforcement
- Live music clubs
- Nightclubs, bars and restaurants
- Corporate AV, hotels and casinos
- Mobile DJ's
- Weddings and parties
- HoW installations
- Rehearsal studios

The XP12 is a compact, powered, two-way system designed by leading acoustic engineers. It can be used either as a stand-alone system, stage monitor or in conjunction with the XP118 powered subwoofer. Featuring a 12" (300mm) LF drivers and a 1" (25mm) exit compression driver on an 80° x 50° rotatable horn, it is ideal for small to mid-size indoor venues requiring class-leading sound from a compact enclosure. The LF driver has a 2.5" (65mm) voice coil and powerful magnet system for the tightest bass response, while the HF compression driver utilises a 1.75" (44mm) polyimide diaphragm for extended high-frequency response without distortion.

An onboard Class D amplifier module delivers 1000W LF + 300W HF peak output to the drivers and sophisticated DSP functions are controlled by a rotary interface and multi-function, easy-to-use colour screen on the rear panel. DSP



features include crossover function, a three-channel mixer with three-band EQ on each input channel and selection of three voicing presets and operating modes for flexible usage without external processing. The LF and HF drivers are independently protected by RMS and peak limiters for longevity and consistency of performance.

The XP12 is road-ready. Constructed from durable plywood, it is fitted with a cloth-backed steel grille to protect the drivers from damage and dust ingress, while not impeding airflow at low frequencies. The enclosure has M8 inserts for eyebolt suspension and a pole-mount socket with a removable cap that maintains clean lines for install applications. It is finished in black textured hard-wearing paint as standard.

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## Compact Self-Powered Two-Way System

### Technical Specifications

#### Acoustics

TYPE	Compact self-powered two-way system
FREQUENCY RESPONSE (5)	62Hz – 20kHz $\pm$ 3dB -10dB @ 50Hz
DRIVERS	LF: 12" (300mm)/2.5" (63.5mm) voice coil, ferrite motor system HF: 1" (25mm) exit/1.7" (44mm) voice coil, polyimide dome compression driver
MAXIMUM SPL (9)	122dB continuous, 128dB peak
DISPERSION	80° H x 50° V (user-rotatable)
CROSSOVER	2.3kHz active, 24dB/octave

#### Module

##### Audio In/Out

INPUT CONNECTORS	2 x female XLR/ ¼" jack combo
MIC/LINE INPUT IMPEDANCE	8 k $\Omega$ balanced
¼" JACK TS INPUT IMPEDANCE	1 M $\Omega$ unbalanced
MIX OUTPUT CONNECTOR	1 x male XLR
MIX OUTPUT IMPEDANCE	600 $\Omega$ balanced

##### Internal Processing

Input channel EQ	3-band on each channel plus HPF (Ch1/2)
Speaker EQ	3 speaker mode/voicing presets
Protection	LF and HF Peak and RMS limiting, amplifier thermal protection

##### Amplifier Module

TYPE	2 channel switch-mode, class D
PEAK OUTPUT POWER	1300W total 1000W LF, 300W HF
AVERAGE EFFICIENCY	89%
COOLING	External convection cooled
MAXIMUM AMBIENT TEMPERATURE	35°C (95°F) for full output

##### Power Supply

TYPE	Switch-mode, fixed frequency with PFC
AC INPUT OPERATING RANGE	100-240V ~ AC, 50 - 60Hz
POWER FACTOR	> 0.98
NOMINAL POWER CONSUMPTION	550W Max
MAINS CONNECTOR	3-pin IEC

##### Mechanical

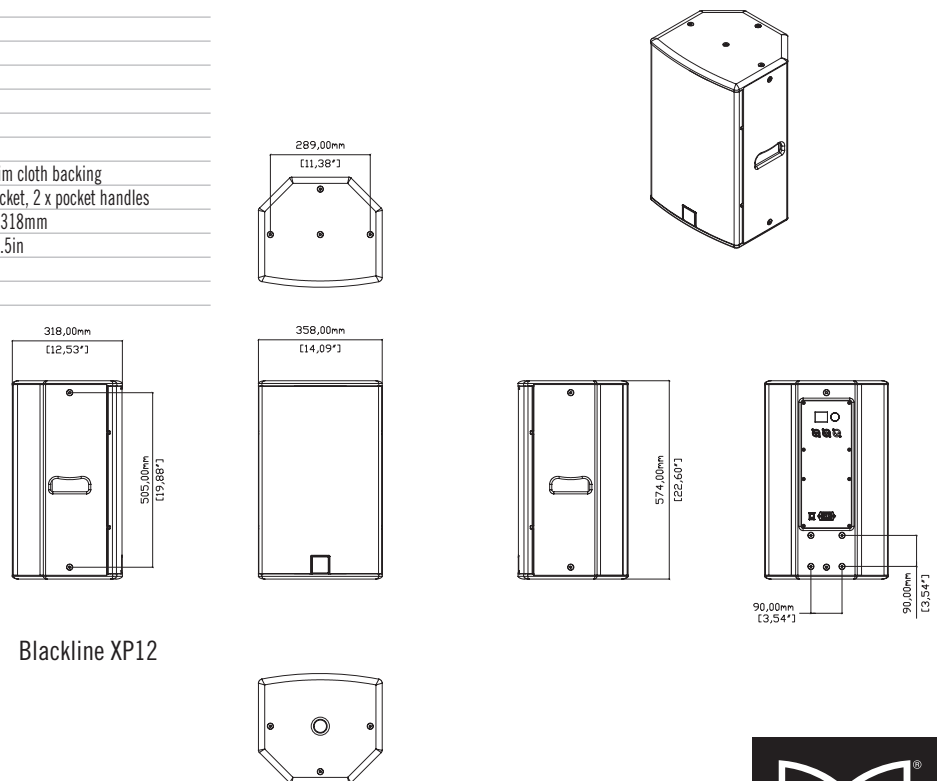
ENCLOSURE	Multi-angle birch/poplar ply
FINISH	Black textured paint
PROTECTIVE GRILLE	Black perforated steel with scrim cloth backing
FITTINGS	17 x M8 inserts, pole-mount socket, 2 x pocket handles
DIMENSIONS	(W) 358mm x (H) 574mm x (D) 318mm (W) 14.1in x (H) 22.6in x (D) 12.5in
WEIGHT	18kg (40lbs)
ACCESSORIES	Wall bracket, eyebolts

#### Notes

- (1) Measured on-axis in half (2pi) space at 2 metres, then referred to 1 metre.
- (2) AES Standard ANSI S4.26-1984.
- (3) Measured in half (2pi) space at 2 metres with 1 watt input, using band limited pink noise, then referred to 1 metre.
- (4) Measured in half (2pi) space at 2 metres using band limited pink noise, then referred to 1 metre.
- (5) Measured on-axis in open (4pi) space at 2 metres, then referred to 1 metre.
- (6) Measured in open (4pi) space at 2 metres with 1 watt input, using band limited pink noise, then referred to 1 metre.
- (7) Measured in open (4pi) space at 2 metres using band limited pink noise, then referred to 1 metre.
- (8) Measured in open (4pi) space at 2 metres with 2.83v input, using band limited pink noise, then referred to 1 metre.
- (9) Calculated at 1 metre.
- (10) Measured in half (2pi) space at 2 metres with 2.83V input, using band limited pink noise.

#### Trade Descriptions Act

Due to Martin Audio's policy of continuing improvement, we reserve the right to alter these specifications without prior notice. Martin Audio is committed to refining state of the art sound reinforcement, combining in-depth product and field applications research with advanced manufacturing techniques. Every Martin Audio product is built to the highest manufacturing standards and rigorously tested to ensure that it meets the performance criteria specified in the design.



Blackline XP12

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