

# AMERICAN STANDARD SERIES

## ALPHA 4

Perfectly suited for line array, car doors or side panels, and other tight fitting applications, the Alpha 4 is a very versatile 110 watt driver that can be used full range, as a midbass, or as a midrange. They can be stacked by themselves in a column for vocal applications, or in conjunction with a tweeter and a sub for compact, high performance PA or MI applications.

- 110 W Program Power
- 4" Nominal Diameter
- 4 Ω

APPLICATION		ENCLOSURE	
Midrange	<input checked="" type="checkbox"/>	Sealed Box	<input checked="" type="checkbox"/>
Midbass	<input checked="" type="checkbox"/>	Vented Box	<input checked="" type="checkbox"/>
Woofer	<input type="checkbox"/>	Scoop Loading	<input type="checkbox"/>
Subwoofer	<input type="checkbox"/>	Horn Loading	<input type="checkbox"/>
Bass Guitar	<input type="checkbox"/>		



### SPECIFICATION

Nominal Basket Diameter	4", 102 mm
Nominal Impedance*	4 Ω
Power Rating*	
Program Power	110 W
Nominal Power	55 W
Resonance	120 Hz
Usable Frequency Range	105 Hz – 10 kHz
Sensitivity*	88 dB
Magnet Weight	10 oz.
Gap Height	0.14", 3.7 mm
Voice Coil Diameter	1", 25 mm

### THIELE & SMALL PARAMETERS

Fs	120 Hz
Re	3.42 Ω
Le	0.18 mH
Qms	6.41
Qes	0.7
Qts	0.63
Vas	0.06 cu.ft., 1.76 liters
Vd	15 cc
Cms	0.38 mm/N
BL	4.12 T-M
Mms	5 grams
EBP	172
Xmax	2.6 mm
Sd	57.7 cm <sup>2</sup>
Xlim	4.5 mm

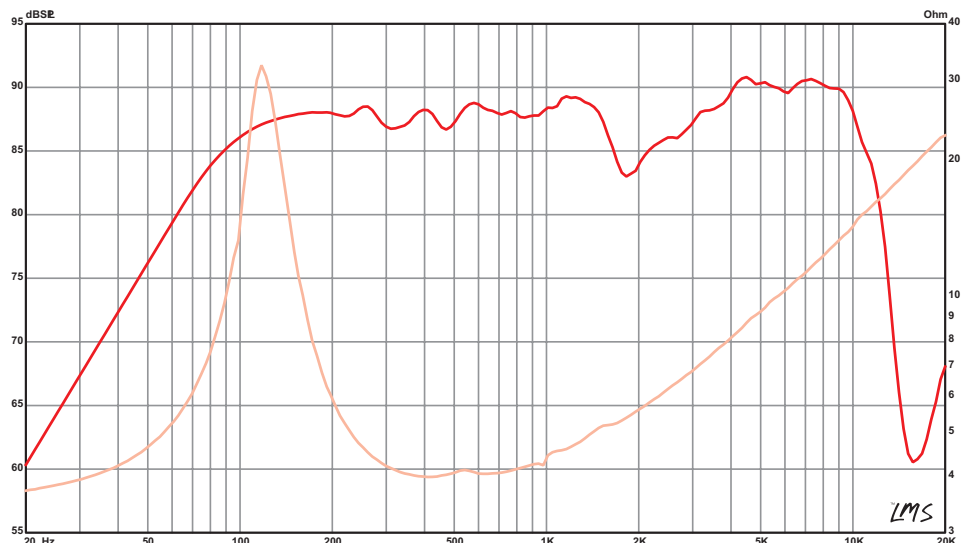
### MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	1.84–4.53 liters,
Vented	0.07–0.16 cu.ft.
Driver Volume Displaced	3.96–7.08 liters,
Overall Diameter	0.14–0.25 cu.ft.
Baffle Hole Diameter	0.012 cu.ft., 0.33 liters
Front Sealing Gasket	4.57", 116.1 mm
Rear Sealing Gasket	3.77", 95.8 mm
Mounting Holes Diameter	Yes
Mounting Holes B.C.D.	Yes
Depth	0.15", 3.8 mm
Net Weight	4.25", 108 mm
Shipping Weight	2.31", 58.7 mm
	1.5 lbs., 0.68 kg
	1.9 lbs., 0.86 kg

### MATERIALS OF CONSTRUCTION

Copper voice coil
Polyimide former
Ferrite magnet
Non-Vented core
Pressed steel basket
Paper cone
Cloth cone edge
Solid composition paper dust cap

### FREQUENCY RESPONSE & IMPEDANCE CURVE\*



\* See footnotes on page 2 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.



## FOOTNOTES

### IMPEDANCE

Please consult [www.eminence.com](http://www.eminence.com) for specifications of models with alternative impedances.

### POWER RATING

Multiple units exceed published ratings evaluated under EIA 426A specification while tested in a free-air, non-temperature-controlled environment. Multiple compression drivers exceeded published ratings evaluated under EIA-426A or AES specification while mounted on Eminence's H290, H290S, or H2EA horn in a non-temperature-controlled environment.

### SENSITIVITY

The average output across the usable frequency range when applying 1W/1m into the nominal impedance. i.e: 2.83V/8Ω, 4V/16Ω. Eminence response curves are measured under the following conditions: All speakers are tested at 1W/1m using a variety of test set-ups for the appropriate impedance | LMS using 0.25" supplied microphone (software calibrated) mounted 1m from wall/baffle | 2 ft. x 2 ft. baffle is built into the wall with the speaker mounted flush against a steel ring for minimum diffraction | Yamaha P3500S amplifier | 2700 cu. ft. chamber with fiberglass on all six surfaces (three with custom-made wedges). Compression drivers were tested using a 2ft x 2ft baffle built into the wall with horn front mounted.

### COAXIALS

BETA 8CX, 10CX, and 12CX are coaxial speakers with tweeter sold separately. Published usable frequency response contingent upon use of ASD:1001 HF Driver.

Prices, product cosmetics and specifications are subject to change without notice.

**EMINENCE SPEAKER LLC**

838 Mulberry Pike, Eminence, KY 40019



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