



# TECHNICAL SPECIFICATIONS ASR660

## DESCRIPTION

A biamplified 3-way full range system (passive mid/high crossover) in a rectangular enclosure. Includes 2x 12-in woofers (separated vertically to create a dipolar array), a horn-loaded 10-in MF cone and a 1.4-in exit/44mm voice coil HF compression driver on a 60 x 45 constant directivity horn.

## APPLICATION

The ASR660 is engineered for use in permanent installations. Dipolar array technology provides effective vertical pattern control to 200 Hz while maintaining a 22.5-in enclosure height. Excellent for use directly above a microphone position. Includes comprehensive 3/8"-16 mounting/suspension points. Six year warranty.

Applications include:

- Stadiums
- Arenas
- Dance Clubs
- Theaters
- Performing Arts Centers
- Houses of Worship

## DESCRIPTIVE DATA

Part Number	999673
Product Group	I
System Configuration	3-way, Full Range
Powering Configuration(s)	Biamplified (passive MF/HF crossover)
LF Subsystem & Loading	2x 12-in, Vented, Dipolar Array
MF Subsystem & Loading	1x 10-in, Horn-Loaded
HF Subsystem & Loading	1x 1.4-in exit/44mm voice coil Compression Driver on Constant Directivity Horn
Recommended High-Pass Frequency (24 dB/Octave)	50 Hz
System Crossover	320 Hz
Cabinet Type (shape)	Rectangular
Enclosure Materials	Baltic Birch Plywood
Finish	Black Polyurethane
Connectors	2x 2-Terminal Barrier Strip
Suspension Hardware	(12) 3/8"-16 Threaded Mounting/Suspension Points (3 each Top and Bottom, 2 on Sides and Back)
Grill	Powder Coated Perforated Steel
Options	104001 3/8"-16 Eyebolt (FC300B)



## NOMINAL DATA

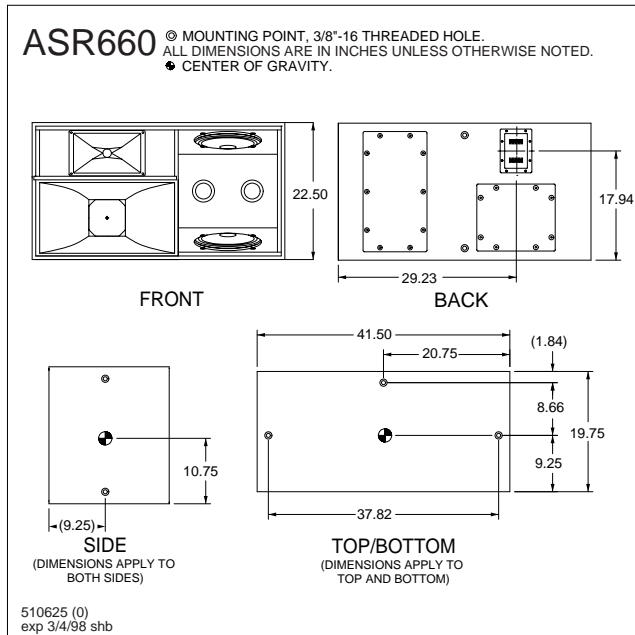
<b>Frequency Response (1 Watt @ 1m)</b>		
±3 dB	58 Hz to 17 kHz	
-10 dB	48 Hz	
<b>Axial Sensitivity (dB SPL, 1 Watt @ 1m)</b>		
Passive MF/HF	105	
LF	102	
<b>Impedance (Ohms)</b>		
Passive MF/HF	8	
LF	4	
<b>Power Handling, AES Standard (Watts)</b>		
Passive MF/HF	360	
LF	800	
<b>Calculated Maximum Output (dB SPL @ 1m)</b>		
Passive MF/HF Peak	136.6	
LF Peak	135.0	
Passive MF/HF Long term	130.6	
LF Long Term	129.0	
<b>Nominal Coverage Angle/-6 dB points (degrees)</b>		
Horizontal	60	
Vertical	45	
<b>Dimensions</b>		
	<b>inches</b>	<b>millimeters</b>
Height	22.50	572
Width	41.50	1054
Depth	19.75	502
<b>Weights</b>		
	<b>pounds</b>	<b>kilograms</b>
Net Weight	154	70.1
Shipping Weight	172	78.3





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## DIMENSIONAL DRAWING



## ARCHITECTURAL SPECIFICATIONS

The biamplified 3-way full range loudspeaker systems shall incorporate 2x 12-in LF transducers, a 10-in MF cone and a 1.4-in exit/44mm voice coil HF compression driver.

The LF drivers shall be mounted in slanted baffles and separated to create a dipolar array. The MF driver shall be loaded into a midrange horn constructed of 3mm birch plywood backed with high density polyurethane foam. The HF driver shall be loaded on a constant directivity horn with a nominal coverage pattern of 60° (h) x 45° (v). An internal passive filter network shall provide fourth order acoustical crossover and system equalization between the MF and HF sub-systems.

System frequency response shall vary no more than  $\pm 3$  dB from 58 Hz to 17 kHz measured on axis. The mid/high section shall produce a Sound Pressure Level (SPL) of 105 dB SPL on axis at 1 meter with a power input of 1 Watt, and shall be capable of producing a peak output of 136.6 dB SPL on axis at 1 meter. The low frequency section shall produce a Sound Pressure Level (SPL) of 100 dB SPL on axis at 1 meter with a power input of 1 Watt, and shall be capable of producing a peak output of 135.0 dB SPL on axis at 1 meter. The mid/high section shall handle 360 Watts of amplifier power (AES Standard) and shall have a nominal impedance of 8 Ohms. The low frequency section shall handle 800 Watts of amplifier power (AES Standard) and shall have a nominal impedance of 4 Ohms.

The loudspeaker enclosure shall be rectangular in shape. It shall be constructed of 15mm thickness void-free cross-grain-laminated Baltic birch plywood and shall employ extensive internal bracing. It shall be finished in black polyurethane. Input connectors shall be 4-terminal barrier strip. Twelve (12) 3/8"-16 threaded mounting/suspension points (3 each top and bottom, 2 on each side and back) shall be provided. The front of the loudspeaker shall be covered with a powder coated perforated steel grill.

The biamplified 3-way full range loudspeaker shall be the EAW model ASR660.

## SERVICE ITEMS

<b>LF: Complete Cone Driver</b>	EAW Part No. 804051
<b>MF: Complete Cone Driver</b>	EAW Part No. 804021
<b>HF: Complete Compression Driver/Tweeter</b>	EAW Part No. 803039
<b>LF: Recone Assembly</b>	EAW Part No. 460048
<b>MF: Recone Assembly</b>	EAW Part No. 460010
<b>HF: Diaphragm Assembly</b>	EAW Part No. 806019
<b>Filter/Crossover Network: Complete Assembly</b>	EAW Part No. 225340