

# TECHNICAL SPECIFICATIONS AS660i

## DESCRIPTION

A biamplified 3-way full range system (passive mid/high crossover) in a trapezoidal 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 AS660i is engineered for use in permanent installations. Dipolar array technology provides effective vertical pattern control to 200 Hz while maintaining a 36-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	999718
Product Group	
System Configuration	3-way, Full Range
Powering Configuration(s)	Biamplified (passive N crossover)
LF Subsystem & Loading	2x 12-in, Vented, Dipo
MF Subsystem & Loading	1x 10-in, Horn-Loaded
HF Subsystem & Loading	1x 1.4-in exit/44mm v Compression Driver on Directivity Horn
Recommended High-Pass Frequency (24 dB/Octave)	50 Hz
System Crossover	320 Hz
Cabinet Type (shape)	Trapezoidal
Enclosure Materials	Baltic Birch Plywood
Finish	Black Polyurethane
Connectors	2x 2-Terminal Barrier
Suspension Hardware	(11) 3/8"-16 Threaded Suspension Points (3 d each Bottom, Back and
Grill	Powder Coated Perfora

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3-way	, Full Range
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320 H	-
Trapez	zoidal
	Birch Plywood
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Baltic	Polyurethane
Baltic Black	,
Baltic Black 2x 2-T (11) 3 Suspe	Polyurethane



#### NOMINAL DATA

Frequency Response (1 Watt @ 1m)		
±3 dB	70 Hz to 17 kHz	
-10 dB	50 Hz	
Axial Sensitivity (dB SPL, 1 Watt @ 1m)		
Passive MF/HF	105	
LF	102	
Impedance (Ohms)		
Passive MF/HF	8	
LF	4	
Power Handling, AES Standard (Watts)		
Passive MF/HF	360	
LF	800	
Calculated Maximum Output (dB SPL @ 1m)		
Passive MF/HF Peak	136.6	
LF Peak	135.0	
Passive MF/HF Long term	130.6	
LF Long Term	129.0	
Nominal Coverage Angle/-6 dB points (degrees)		

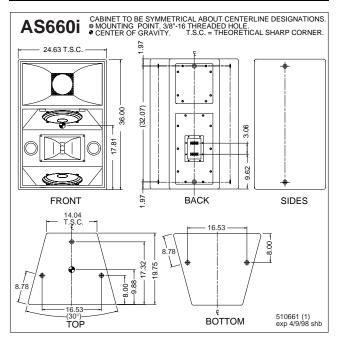
Horizontal Vertical	60 45
Dimensions	inches millimeters
Height	36.00 914
Width (Front)	24.63 626
Width (Rear)	14.01 356
Depth	19.75 502
Trapezoid Angle	15 degrees per side
Weights	pounds kilograms
Net Weight	149 67.8
Shipping Weight	155 70.5





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## DIMENSIONAL DRAWING



Options 104001 3/8"-16 Eyebolt (FC300B)

#### SERVICE ITEMS

LF:	Complete Cone Driver		
	EAW Part No.	804051	
MF:	Complete Cone Driver		
	EAW Part No.	804021	
HF:	Complete Compression	n Driver/Tweeter	
	EAW Part No.	803039	
LF:	Recone Assembly		
	EAW Part No.	460048	
MF:	Recone Assembly		
	EAW Part No.	460010	
HF: Diaphragm Assembly			
	EAW Part No.	806019	
Filter/Crossover Network: Complete Assembly			
	EAW Part No.	225366	

# 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  $60^{\circ}$  (h) x  $45^{\circ}$  (v). An internal passive filter network shall provide fourth order acoustical crossover and system equalization between the MF and HF subsystems.

System frequency response shall vary no more than  $\pm 3$  dB from 70 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 have a nominal impedance of 4 Ohms.

The loudspeaker enclosure shall be trapezoidal in shape. It shall be constructed of 15mm thickness void-free cross-grainlaminated Baltic birch plywood and shall employ extensive internal bracing. It shall be finished in black polyurethane. Input connectors shall be 2x 2-terminal barrier strips. Eleven (11) 3/8"-16 threaded mounting/suspension points (3 on top, 2 each on bottom, back and sides) 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 AS660i.