# SPECIFICATIONS AS660e

## DESCRIPTION

A bi-amplified (passive mid/high crossover) or tri-amplified 3-way full range system in a trapezoidal enclosure. Includes 2x 12-in woofers (separated vertically), a horn-loaded 10-in MF cone with Radial Phase Plug™ and a 1.4-in exit/2.5-in voice coil HF neodymium compression driver on a 60° x 45° constant directivity horn.

## APPLICATION

The AS660e is engineered for use in permanent installations. Optimized subsections provide excellent full range frequency response in a medium format enclosure. Includes comprehensive 3/8"-16 mounting/suspension points. Six year warranty.

Applications include

| | |
|---|---|
| Stadiums | Arenas |
| Performing Arts Centers | Houses of Worship |

## PERFORMANCE

| | |
|---|---|
| **Frequency Response (Hz)** | |
| ±3 dB | 67 Hz to 15 kHz |
| -10 dB | 50 Hz |
| **Axial Sensitivity (dB SPL, 1 Watt @ 1m)** | |
| Passive MF/HF | 107 |
| LF | 102 |
| MF | 109 |
| HF | 109 |
| **Impedance (Ohms)** | |
| Passive MF/HF | 8 |
| LF | 4 |
| MF | 8 |
| HF | 8 |
| **Power Handling (Watts, Continuous)** | |
| Passive MF/HF | 450 |
| LF | 800 |
| MF | 400 |
| HF | 125 |
| **Recommended High-Pass Frequency** | |
| 24 dB/Octave | 40 Hz |
| **Calculated Maximum Output (dB SPL @ 1m)** | |
| Passive MF/HF Peak | 139 |
| LF Peak | 137 |
| MF Peak | 141 |
| HF Peak | 136 |
| Passive MF/HF Long term | 133 |
| LF Long Term | 131 |
| MF Long Term | 135 |
| HF Long Term | 130 |

| | |
|---|---|
| **Nominal Coverage Angle/-6 dB points (degrees)** | |
| Horizontal | 60 |
| Vertical | 45 |

## PHYSICAL

| | |
|---|---|
| Product Group | I |
| System Configuration | 3-way, full range |
| Powering Configuration(s) | Bi-amplified (passive MF/HF crossover) or tri-amplified |
| LF Subsystem & Loading | 2x 12-in, vented |
| MF Subsystem & Loading | 1x 10-in cone, Radial Phase Plug™/ horn-loaded |
| HF Subsystem & Loading | 1x 1.4-in exit/2.5-in voice coil neodymium compression driver on constant directivity horn |
| Cabinet Type (shape) | Trapezoidal |
| Enclosure Materials | Exterior grade Baltic birch plywood |
| Finish | Wear-resistant textured black paint |
| Connectors | 2x 6-Contact terminal barrier strip, jumpers used for powering configuration |
| Suspension Hardware | (18) 3/8"-16 threaded mounting/ suspension points (4 each on top, bottom and sides, 2 on back) |
| Grille | Powder coated perforated steel |

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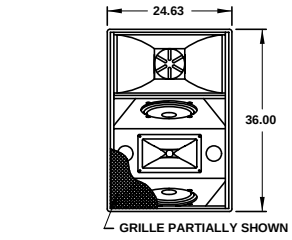
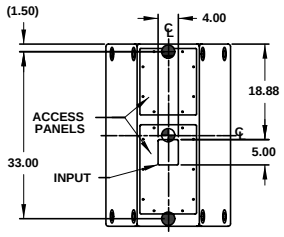
## DIMENSIONAL DRAWING

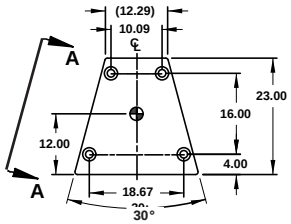
◎ INDICATES MOUNTING POINT, 3/8-16 THREADED HOLE (PI ANGLE).
● INDICATES MOUNTING POINT, 3/8-16 THREADED HOLE (NUT PLATE).
⊕ SYMBOL INDICATES CENTER OF BALANCE.



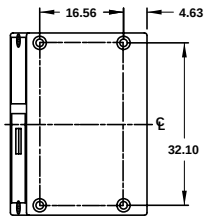
FRONT



BACK



TOP/BOTTOM



**SIDE VIEW (VIEW A-A)**
DIMENSIONS APPLY TO BOTH SIDES

509132 (0)
5/10/01

Manufacturing tolerances are +/- 0.13 and +/- 1°

| **Dimensions** | **inches** | **millimeters** |
|---|---|---|
| Height | 36.0 | 914 |
| Width (Front) | 24.6 | 626 |
| Width (Rear) | 12.3 | 312 |
| Depth | 23.0 | 584 |
| Trapezoid Angle | 15 degrees per side | |
| **Weights** | **pounds** | **kilograms** |
| Net Weight | 169 | 76.9 |
| Shipping Weight | 184 | 83.7 |

## A & E SPECIFICATIONS

The bi-amplified or tri-amplified 3-way full range loudspeaker system shall incorporate 2x 12-in vented LF transducers, a horn-loaded 10-in MF cone with Radial Phase Plug™ and a 1.4-in exit/2.5-in voice coil HF neodymium compression driver.

The LF drivers shall be mounted in slanted baffles and separated vertically. The MF driver shall be loaded into a midrange horn constructed of 1/8-in 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 subsystems.

System frequency response shall vary no more than ±3 dB from 67 Hz to 15 kHz measured on axis. The mid/high section shall produce a Sound Pressure Level (SPL) of 107 dB SPL on axis at 1 meter with a power input of 1 Watt, and shall be capable of producing a peak output of 139 dB SPL on axis at 1 meter. The low frequency section shall produce a Sound Pressure Level (SPL) of 102 dB SPL on axis at 1 meter with a power input of 1 Watt, and shall be capable of producing a peak output of 137 dB SPL on axis at 1 meter. The mid frequency section shall produce a Sound Pressure Level (SPL) of 109 dB SPL on axis at 1 meter with a power input of 1 Watt, and shall be capable of producing a peak output of 141 dB SPL on axis at 1 meter. The high frequency section shall produce a Sound Pressure Level (SPL) of 109 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 dB SPL on axis at 1 meter. The mid/high section shall handle 450 Watts of amplifier power (continuous) and shall have a nominal impedance of 8 Ohms. The low frequency section shall handle 800 Watts of amplifier power (continuous) and shall have a nominal impedance of 4 Ohms. The mid frequency section shall handle 400 Watts of amplifier power (continuous) and shall have a nominal impedance of 8 Ohms. The high frequency section shall handle 125 Watts of amplifier power (continuous) and shall have a nominal impedance of 8 Ohms.

The loudspeaker enclosure shall be trapezoidal in shape. It shall be constructed of multi-ply, void-free, cross-grain-laminated, exterior grade, Baltic birch plywood and shall employ extensive internal bracing. It shall be finished in wear-resistant textured black paint. Input connectors shall be 2x 6-contact terminal strips, jumpers used for powering configuration. Eighteen (18) 3/8"-16 threaded mounting/suspension points (4 each on top, bottom and sides, 2 on back) shall be provided. The front of the loudspeaker shall be covered with a powder coated perforated steel grille.

The bi-amplified or tri-amplified 3-way full range loudspeaker shall be the EAW model AS660e.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