

FS 12T-66

FS Series Arena Horn Loudspeaker



Features

- Ideal for a Wide Array of Outdoor and Indoor Applications
- Integrated 400-Watt 70.7V Transformer
- Constant Directivity Design Offers Controlled Coverage of 60° Horizontal by 60° Vertical
- All-Weather Construction Ensures Long-Term Reliability Through Varying Seasons
- Flexible Mounting System Ensures Versatile Install Mounting Angles
- Easy Service Design Allows Transducers to be Serviced in the Field without Uninstalling the Enclosure from the Mount
- Neutral Finish Blends into Any Environment

Applications

The FS12T-66 features a lightweight and compact all-weather enclosure that can be used in multiple outdoor and indoor installation applications including arenas, stadiums, fairgrounds, racetracks, theme parks, outdoor entertainment centers, convention centers, aquatic centers, and multipurpose venues.

General Description

The FS12T-66 is two-way, full-range loudspeaker system engineered to provide excellent voice and music reproduction in applications requiring weather resistance. It was designed to withstand exposure to environmental conditions and provide long-lasting reliability.

It incorporates a 12" LF driver and 1" exit HF compression driver concentrically mounted to a high-directivity waveguide. It provides 60° x 60° coverage and is tuned for optimal source reproduction.

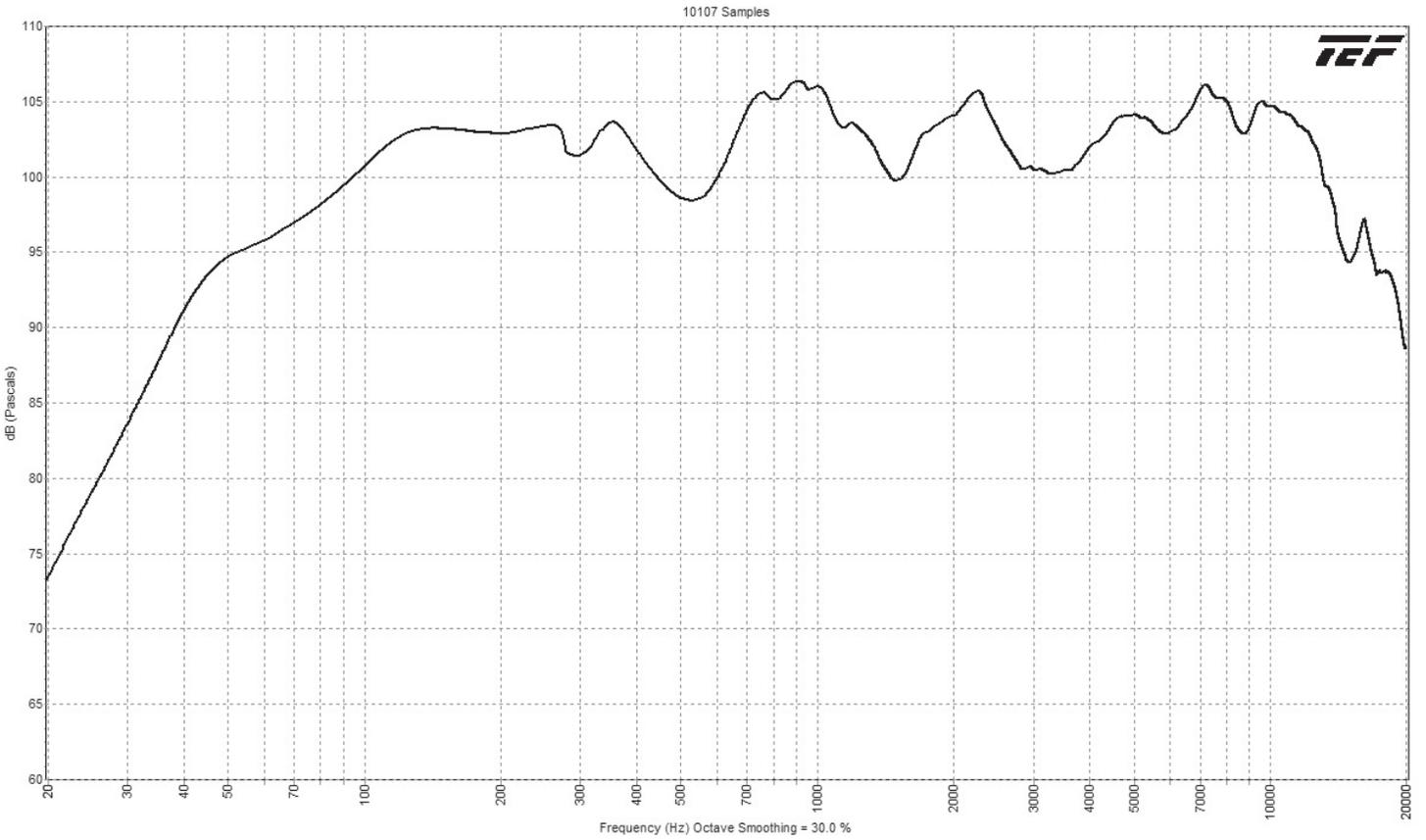
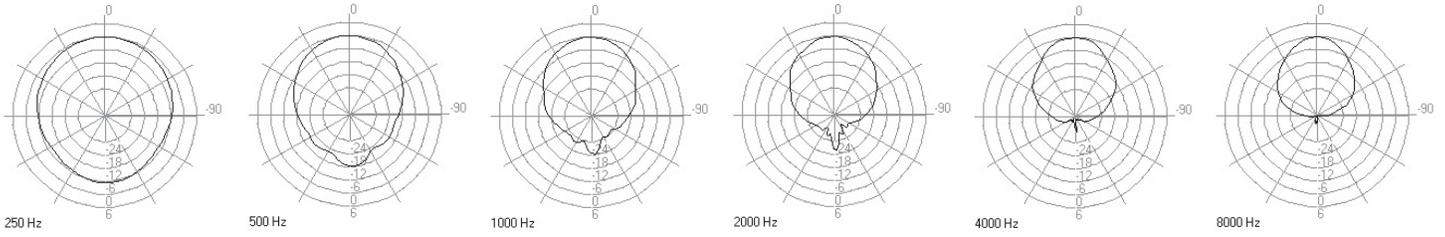
The unit is constructed using molded linear low-density polyethylene (LLDPE), creating an incredibly strong yet lightweight enclosure. The unit includes a stainless steel U-bracket and fly-points allowing for easy mounting. Input is via an integrated 70.7V transformer with low insertion loss and full frequency response with power taps up to 400-watts including an 4Ω bypass. The transformer is discretely mounted under the rear cover for weather protection. The finish is neutral "battle ship grey" that is UV resistant and allows for years of durability.

| System | |
|---------------------------------|--|
| Type | Full-Range, Outdoor, Horn Loudspeaker |
| Operation Mode | Non-Powered Passive |
| Operating Range (-10db) | 57Hz - 18.6kHz |
| Frequency Response (+/- 5dB) | 80Hz - 17.6kHz |
| Sensitivity (2.83V @1m) | 102.5 dB |
| Vertical Coverage | 60° |
| Horizontal Coverage | 60° |
| Max Input Ratings (4 ohm) | 400 W Continuous, 800 W Program |
| Transformer Taps - 70V | 400W, 200W, 100W, 50W |
| Transformer Taps - 100V | 400W, 200W, 100W |
| Directivity Factor (Q) | 36.4 @ 4kHz |
| Directivity Factor (DI) | 15.6 @ 4kHz |
| Max SPL at 1m (Passive) | 128.5 |
| Crossover Frequency | 1.1kHz |
| Recommended Signal Processing | 70 Hz High Pass Filter |
| Recommended Power Amplification | 400W @ 4Ω |
| Transducers | |
| LF Transducer Qty and Size | 1 x 12" |
| LF Voice Coil Size | 2.5" |
| MF Transducer Qty and Size | N/A |
| MF Voice Coil Size | N/A |
| HF Transducer Qty and Size | 1 x Compression Driver 1" Throat |
| HF Voice Coil Size | 1.75" |
| Maximum Output (System) | 128.5 dB |
| Nominal Impedance (System) | 4Ω |
| Minimum Impedance (System) | 4.1Ω @ 1050Hz |
| Driver Protection | HF and LF Driver Protection Circuits |
| Enclosure | |
| Color | Light Gray |
| Enclosure Material | LLDPE (Linear Low-Density Polyethylene) |
| Grille Material | Aluminum |
| Baffle Material | N/A |
| Mount Material | Stainless Steel |
| Input Connection | Barrier Terminal, Transformer / 4Ω Direct |
| Controls | N/A |
| Mounting / Rigging Provisions | 6mm Stainless Steel U-Bracket |
| Ingress Protection | IP45 When Tilted 5° Downwards |
| Environmental Testing | MIL-DTL-12606 |
| Cutout Diameter | N/A |
| Logo | 2 Sides, Rear Cover, and Grill |
| Product Dimensions (HxWxD) | 19.56" x 18.5" x 18.5" (498mm x 470mm x 470mm) |
| Shipping Dimensions (HxWxD) | 24.5" x 23.5" x 23.5" (622mm x 597mm x 597mm) |
| Net Weight | 48 lbs. (21.77 kgm) |
| Shipping Weight | 60 lbs (27.21 kgm) |
| Warranty Coverage | |
| Warranty Period | 5 Years |

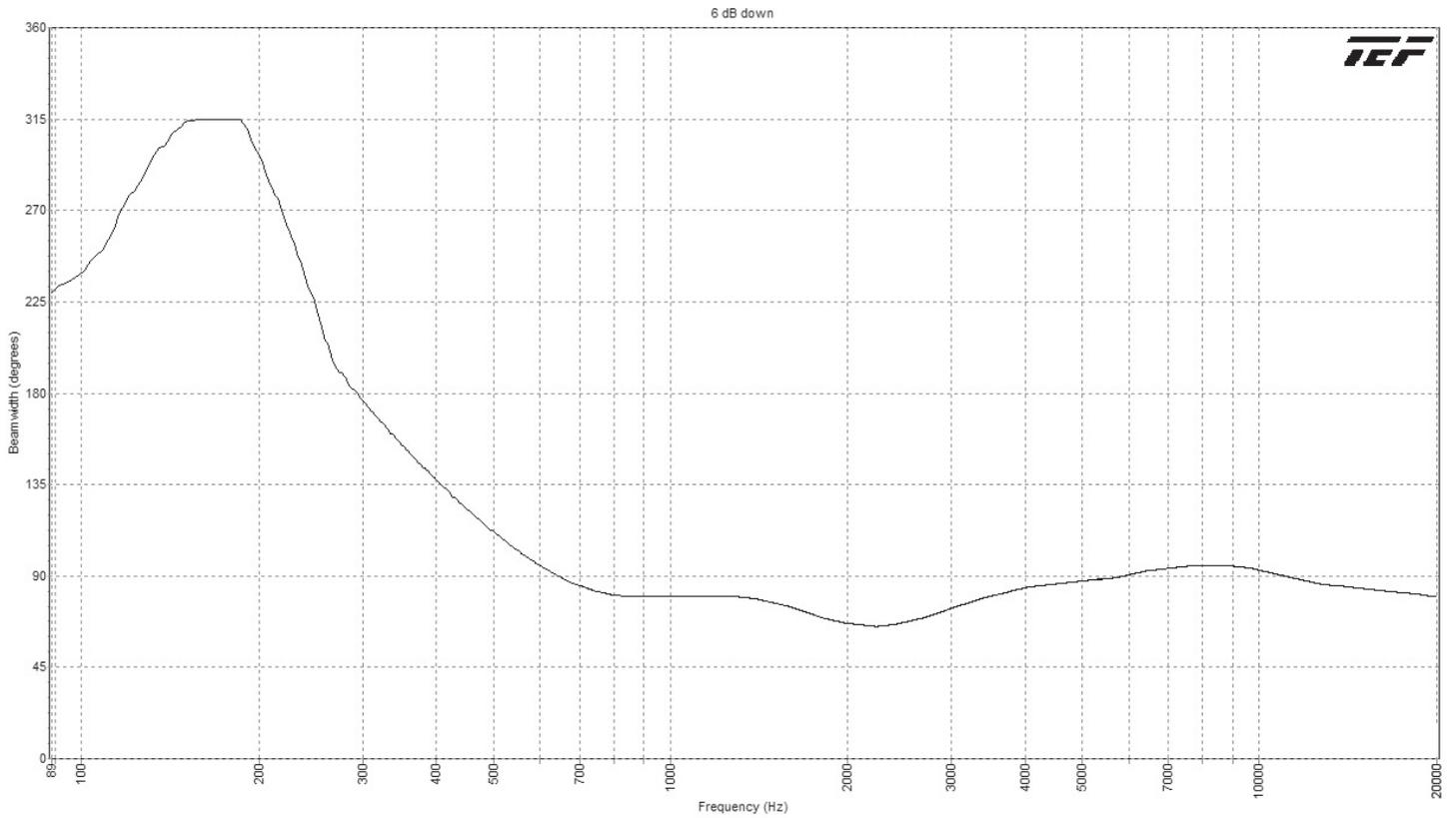
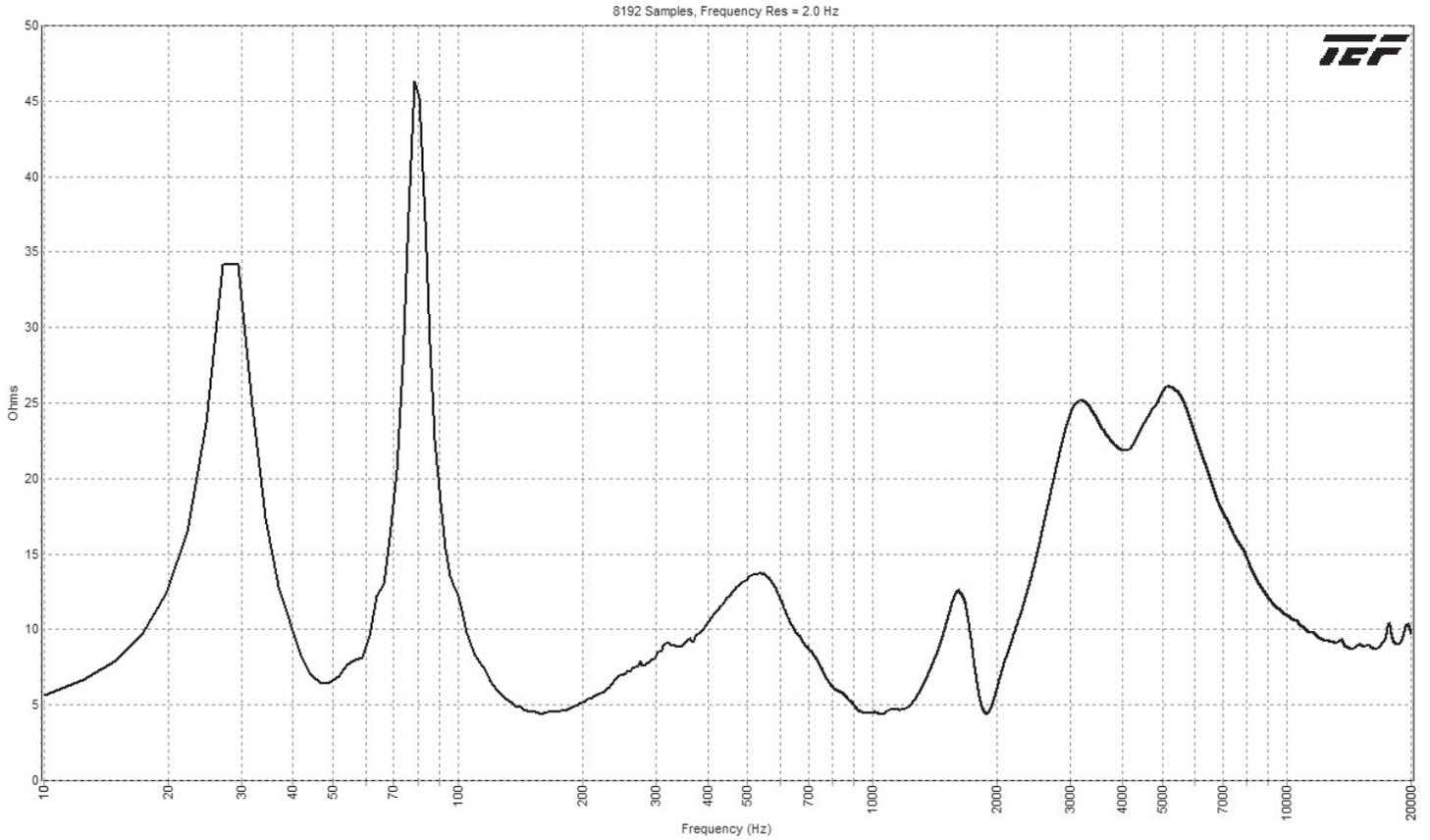
NOTES:

1. Sensitivity: 1 meter, 2.83 volts RMS.
2. Power: All power figures are calculated using the rated nominal impedance.
3. Frequency response and sensitivity are anechoic measurements.

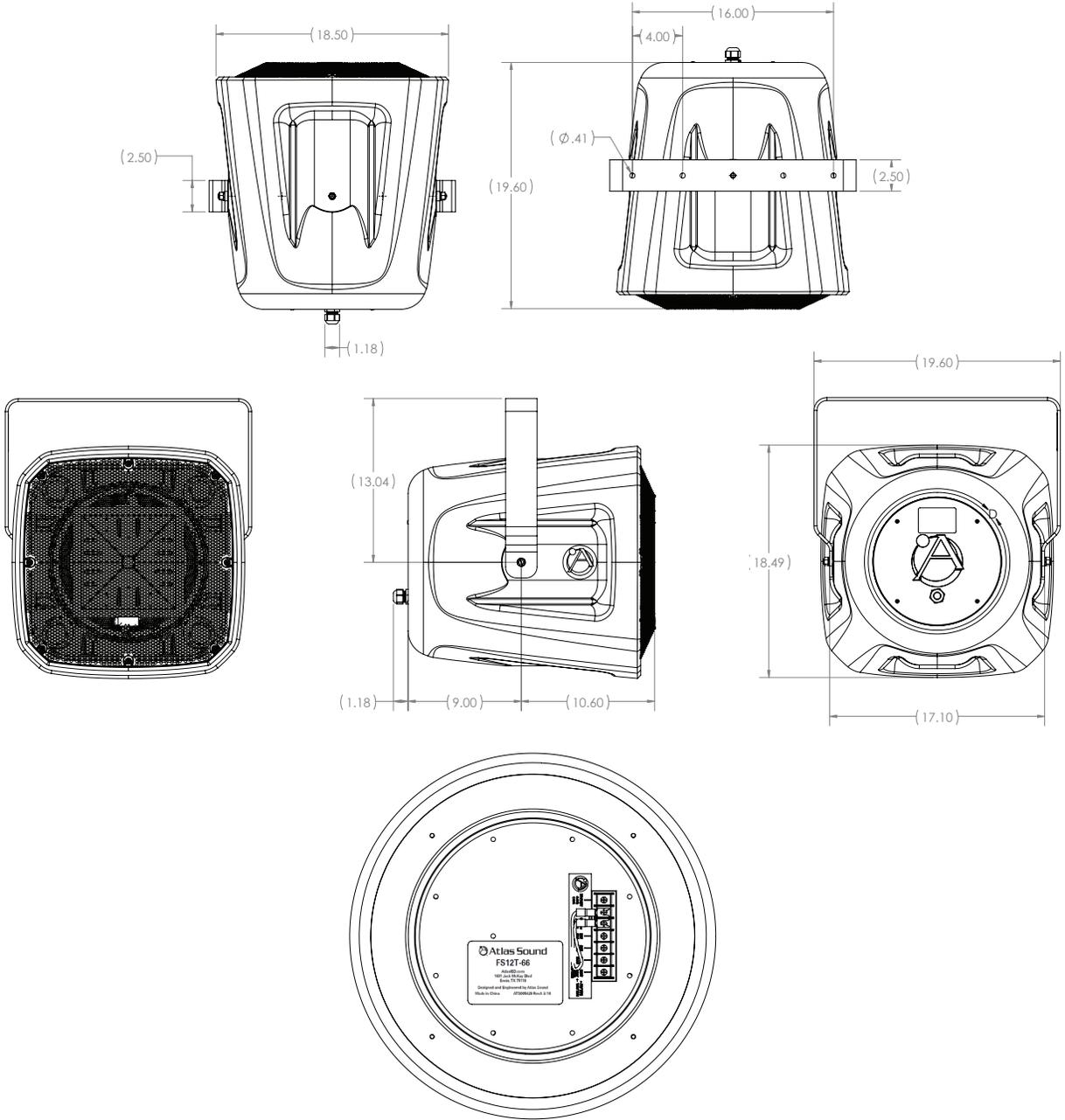
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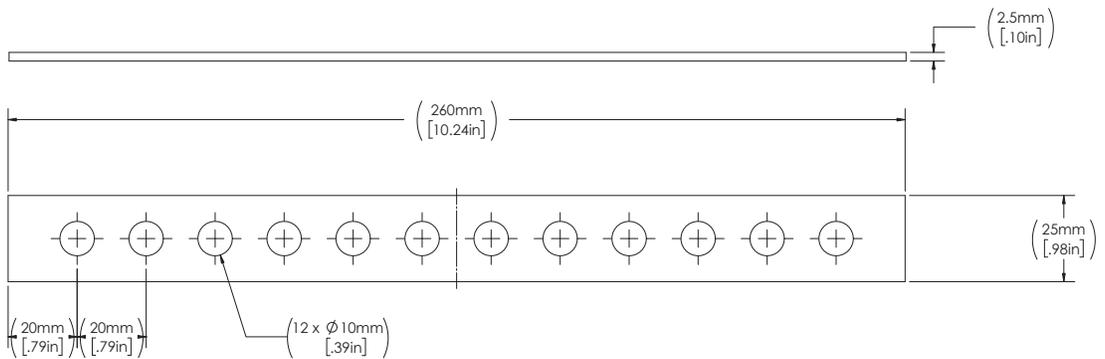
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Dimensional Drawings



Angle Set Strap



Architect and Engineer Specifications

Loudspeaker shall be Atlas Sound model FS12T-66 or approved equal.

The loudspeaker system shall be a two-way, full-range design with an IP45 rating. It shall include a 12" cast frame LF woofer and an integral, concentrically mounted 1" exit compression driver coupled to a constant directivity high frequency waveguide. The three pole (18dB/octave) dividing network shall have a crossover frequency of 1.6kHz. The dividing network shall include a poly switch protection circuit for the high-frequency component.

The loudspeaker system shall be capable of providing a sound dispersion angle of 60° _horizontal by 60° _vertical in the 2kHz octave band. Rated power shall be 400 watts RMS based on EIA Standard RS-426B.

Enclosure shall be UV-resistant, linear low-density polyethylene (LLDPE) and shall include a 2-stage multiple mesh filter system for weather and rodent resistance: to include a 20-gauge perforated aluminum screen on front mouth assembly, a 100 x 100 weave stainless steel mesh between HF horn and HF driver and a 100 x 100 weave stainless steel mesh over 12" woofer. The loudspeaker shall include a stamped and formed, 2mm stainless steel powder coated mounting bracket assembly for surface mounting.

Sensitivity shall be 102.5dB SPL (80Hz to 15kHz in 1/3 octave bands) measured at a distance of one meter on axis with a one watt input half space (2.83V).

Overall frequency response shall be 80Hz – 17.6kHz. The input section located on the bottom rear of the loudspeaker shall be via 7 position screw down terminal strip internally configured to allow input to an internally mounted 70.7V transformer with 50, 100, 200, 400-watt taps and a bypass jumper direct coupled to the speaker for nominal 4 Ω operation. The system connections shall be protected from the elements by a screw affixed weather resistant cover.