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TFA-600L

FLEX ARRAY ENGINEERING INFORMATION

Flex Array series is a high performance modular loudspeaker system designed for use in a variety of medium scale line array or virtual point source sound reinforcement activities ranging from theatres and live music venues to concert touring, festivals, corporate events and regional tours.

The **TFA-600L** is a compact horn loaded bass enclosure designed to be flown or ground stacked with Flex Array TFA-600H mid/highs. It consists of a single 18" neodymium low frequency driver loaded with a TurboBass device in a birch plywood cabinet.

The TFA-600L utilises the same low frequency drive unit as the larger TSW-218, and employs the same loading techniques so these two bass enclosures can freely be mixed in any application. The proprietary 18" drive unit is the result of a development project that has produced a unique neodymium motor system. The magnet system drives a dual-spider split 4" voice coil which allows continuous BL (magnetic force) with displacement, ensuring optimum control from the motor assembly and very low harmonic distortion even at the excursion limits. The 4" coil also results in a lower system moving mass than equivalent 5" units, resulting in higher sensitivity and exceptional response to fast transient peaks.

The enclosure is equipped with an integrated flying system which enables it to be flown at the top of a column of Flex Array loudspeakers using a simple conversion frame between the bass enclosures and mid/highs. The same conversion frame is used to provide a stable Flex Array groundstack. A pole mount socket is fitted for use with flying yokes.

The 15mm birch plywood cabinet is equipped with recessed handles on the sides and back, and is supplied with heavy duty wheels in order to aid trucking and handling.

A recessed panel at the rear of the cabinet carries two parallel-linked Speakon NL4MP connectors for input and loop-through connections.

FEATURES

- High definition bass
- 139dB max output
- Compact enclosure
- Neodymium drive unit
- Pole mount socket
- Integrated flygear

APPLICATIONS

- House of Worship
- Flown clusters
- Ground-stacked touring
- Theatre and corporate
- Live music venues
- Dance clubs

Turbosound®
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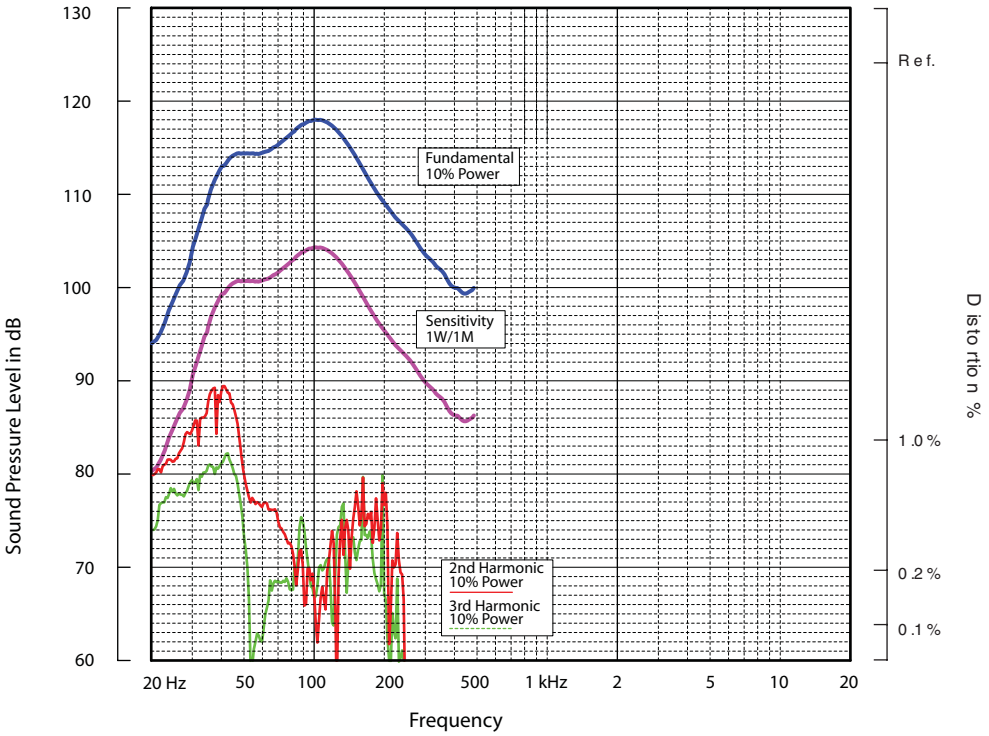
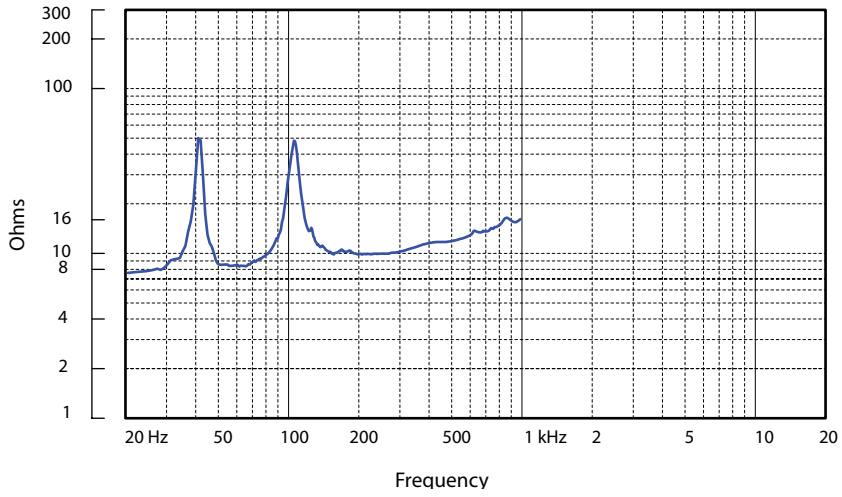
FLEX ARRAY ENGINEERING INFORMATION

DIMENSIONS (HxWxD)	574mm x 710mm x 848mm (22.6” x 28" x 33.4")
NET WEIGHT	72kg (158.4lbs)
COMPONENTS	1 x custom 18” (457mm) LF driver
FREQUENCY RESPONSE	38Hz - 150Hz ±3dB, 30Hz - 150Hz ±10dB Recommended operational range below 250Hz
POWER HANDLING	800 watts r.m.s., 1600 watts program
SENSITIVITY (1W@1M)	104dB; 110dB with 16 units
CALC. MAXIMUM SPL	Single enclosure: 133dB continuous (calculated SPL addition), 139dB peak
NOMINAL IMPEDANCE	8 ohms
CONSTRUCTION	15mm (5/8”) birch plywood throughout; heavily braced, rebated, screwed and glued. Finished in black semi-matt textured paint. Eight recessed carrying handles.
GRILLE	2mm powder coated perforated mild steel backed with reticulated foam
CONNECTORS	(2) Neutrik Speakon NL4MP, wired pin1+: positive, pin1-: negative; pin2+ and pin2-: n/c
SPARES AND ACCESSORIES	LS-1815 18” (457mm) LF loudspeaker RC-1815 Recone kit MG-600L Replacement metal grille T4 wheels Heavy duty wheels

FREQUENCY RESPONSE



IMPEDANCE



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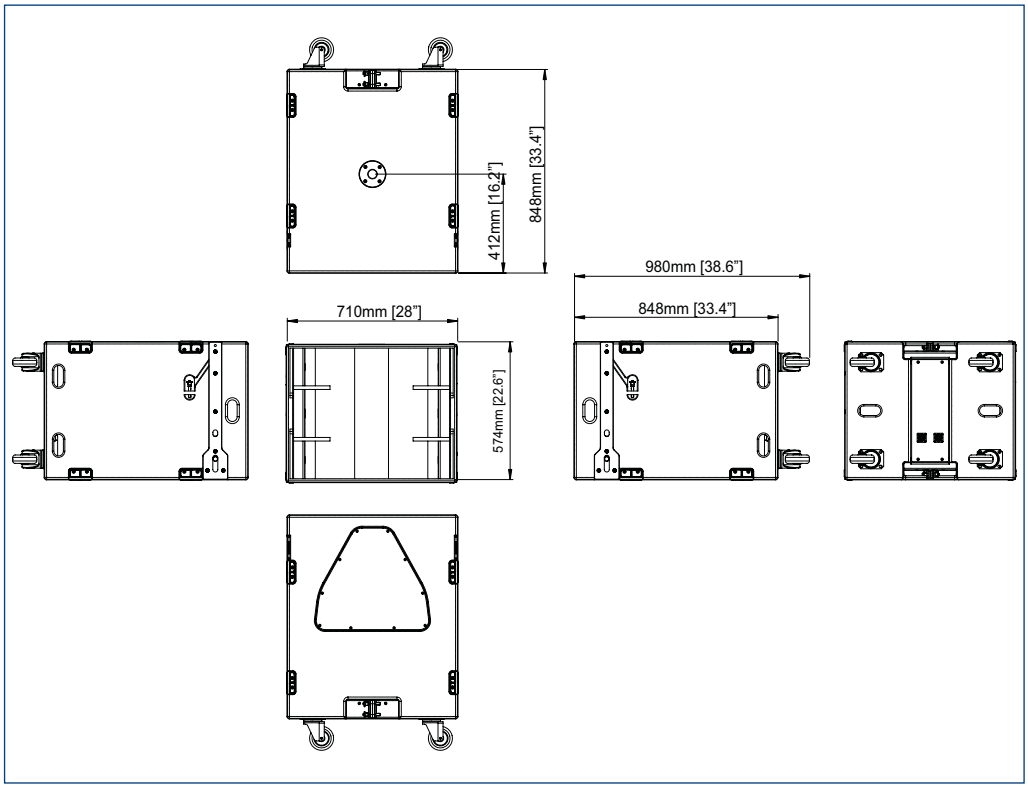
TFA-600L

ARCHITECTURAL & ENGINEER'S SPECIFICATIONS

The system shall be of the horn-loaded subwoofer type consisting of one 18" (457mm) low frequency driver. Performance specifications of a typical production unit shall meet or exceed the following:- Frequency response, measured with a swept sine wave input shall be flat within ±3dB from 38Hz to 150Hz, and within ±10dB from 30Hz to 150Hz. Nominal impedance shall be 8 ohms. Power handling shall be 800 watts r.m.s., 1600 watts program. Sensitivity measured with 1 watt input at 1 metre distance on axis, mean averaged over stated bandwidth shall be 104dB. Maximum SPL (peak), measured with music program shall be 139dB. Dimensions: 574mm x 710mm x 848mm (22.6" x 28" x 33.4"). Weight: 72kg (158.4lbs). The loudspeaker system shall be the Turbosound TFA-600L. No other system shall be acceptable unless the above combined performance specifications are equalled or exceeded. Flying and installation hardware shall be available comprising a range of load-certified components.

DIMENSIONS



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