



POWERVS10 BP

TANNOY®



Product Description

The Tannoy POWERVS10 BP is a compact, versatile bandpass subwoofer system, designed to extend the low frequency response and increase system headroom of POWERV Series loudspeakers. Extending the frequency response of these systems to below 40Hz this highly efficient design is capable of providing output levels normally associated with considerably larger enclosures.

A system suited to background music playback in applications ranging from clubs, bars and cafes, right through to theatres and AV presentations. The POWERVS10 BP utilises a single high efficiency 250mm (10.00") drive unit in a compact and sturdy, black or white painted MDF cabinet. The design concept also allows discreet placement, for instance unobtrusively incorporated into fixed furnishings such as underneath seating or the bar in cafes and bars. The install placement is made even easier as the design incorporates moveable bass port tubes and blanking plates that can be swapped from the side to the end panel, allowing the unit to be installed in various orientations. M10 rigging points are also provided to allow permanent installation.

Delivering impressive levels of accuracy and performance, the POWERVS10 BP is equipped with a highly efficient, flexible and reliable Class D power amplifier incorporating a switching power supply. The amplifier section and power supply were developed simultaneously and therefore optimally matched to minimise noise and enhance stability. The power module combines light, efficient and cool-running amplification, comprehensive driver protection and equalisation into a single compact unit. Clean, undistorted sound is delivered, even when driven at very high power levels. No cooling fans are required so the system runs quietly and is not prone to internal dust contamination.

All signal processing functions have been precisely tailored; crossover frequencies and slopes, EQ, phase corrections and limiting. LED's on the rear panel indicate signal presence, signal activity, and power. Signal input and audio link are via XLR, while the mains connector is a Neutrik locking Powercon type. The full range POWERVS models have a high pass mode that enables a simple top box and subwoofer combination to be created without the need for an external crossover. Two low pass setting options on the subwoofer amplifier fully optimise integration with the full range units.

Available in black or white, this versatile powered subwoofer also has, due to effective acoustic matching to the other POWERVS models, a wide range of uses in fully integrated installations as diverse as theme bars, performing arts centres, high quality public address, theme parks, leisure venues, audio visual, houses of worship and 'dry hire' rental.

Features

- 250mm (10.00") drive unit
- Compact and versatile enclosure with convenient aspect ratio
- Rugged, highly efficient Class D amplification with universal power supply
- High power output
- Integral carry handles
- Rugged MDF construction finished with textured black paint
- Port and blanking plate swap facility optimises installation flexibility

Applications

- Background and foreground music playback
- Ideal for discreet placement in confined areas
- Performing arts venues
- Bars and clubs
- Restaurants, cafes and retail premises
- Theatres
- AV Presentations
- 'Dry hire' rental

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TECHNICAL SPECIFICATIONS

System	POWERVS10 BP	
System Type	Subwoofer - Bandpass	
Frequency Response (-3dB) ⁽¹⁾ Low pass filter A on	37Hz - 80kHz	
Frequency Range (-10dB) ⁽¹⁾ Low pass filter B on	37Hz - 110kHz	
Frequency Response (-3dB) ⁽¹⁾ Low pass filter A on	32Hz - 80kHz	
Frequency Range (-10dB) ⁽¹⁾ Low pass filter B on	32Hz - 110kHz	
Driver Complement	1 x 250mm (10.00") High excursion bass driver	
Crossover	User selectable LPF	
Rated Maximum SPL ⁽²⁾		
Average	118dB	
Peak	124dB	
Distortion		
10% Full Power (12.7V) 40Hz 100Hz	2nd Harmonic 2.27% 1.79%	3rd Harmonic 0.73% 1.27%
1% Full Power (4V) 40Hz 100Hz	2nd Harmonic 0.57% 0.61%	3rd Harmonic 0.47% 1.37%

PSU Specifications

Input Connector	Locking Neutrik Powercon
Voltage Selection	Automatic (115 / 230V, 45 - 65Hz)
Type	High current, high frequency switch mode
Efficiency	>90% typical
Input voltage	100v / 115v / 230v nominal +/-10%
Mains fuse	External
Fuse type	T10AT
Other features	Automatic soft start

Notes:

(1) Average over stated bandwidth. Measured at 1 metre on axis.

(2) Unweighted pink noise input, measured at 1 metre in an anechoic chamber

A full range of measurements, performance data, CLF and Ease™ Data can be downloaded from www.tannoy.com

Full independent verification of published specifications carried out by NWA Labs, California can also be obtained from the downloads section of www.tannoy.com

Tannoy operates a policy of continuous research and development. The introduction of new materials or manufacturing methods will always equal or exceed the published specifications, which Tannoy reserves the right to alter without prior notice. Please verify the latest specifications when dealing with critical applications.

Construction	
Enclosure	50 litre Bandpass enclosure of internally braced 15mm (0.62") MDF
Finish	Textured black or white paint with custom colours on request
Connectors	1 x female XLR (input) 1 male XLR (link), 1 x Neutrik Powercon
Controls & Indicators	Level control Power LED (Blue) Signal LED (Green) Limit LED (Red) Full range / High pass switch (110Hz) Power switch
Fittings	2 x Blanking plates; allowing the bass ports to be moved to another fascia 8 x M10 Flying inserts 2 x recessed carry handles Blanking plate for optional VTH pole mount 4 x Rubber feet
Dimensions H x W x D	335 x 385 x 590mm 13.98 x 14.37 x 23.23"
NET Weight	18kg (39.6lbs)
Electronics	
Maximum signal input for clip	Input attenuator at minimum: +18dBu Input attenuator at maximum: +5dBu
Output noise	-105dB unweighted, referenced to maximum output (22kHz bandwidth)
Efficiency	>90% typically
Damping Factor	400 ref 8 Ohms
Distortion	<0.05% @ 1kHz -3dB output (22kHz bandwidth)
Input Impedance	5.6kOhms unbalanced 11.2kOhms balanced
Protection systems	Over Current Temperature Brownout Mains Indicators
	Excessive over current causes shutdown Limiters applied Automatic protection and recovery Inrush current limiting 1x Limit LED 1x Signal LED 1x Power LED
Number of channels	One
System Type	Class D

Ordering Information

PART NUMBER	MODEL NAME	COLOUR	PACKED QUANTITY
8001 4300	POWERVS10 BP	Black	1
8001 4301	POWERVS10 BP	White	1

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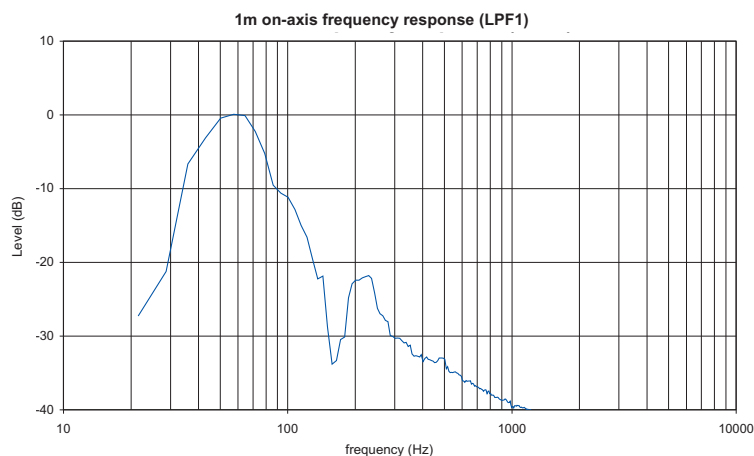
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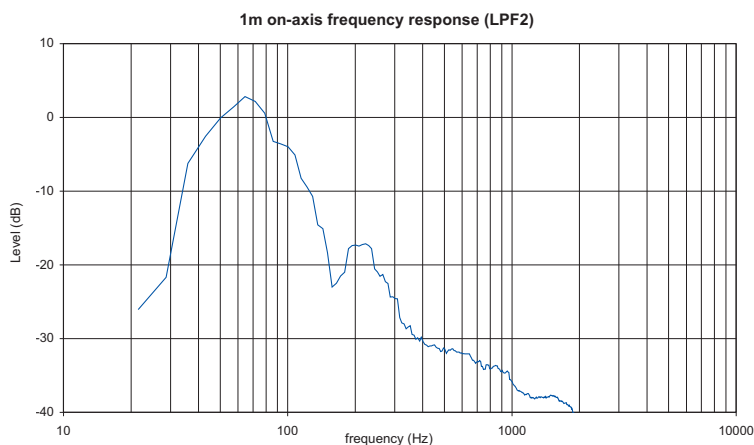
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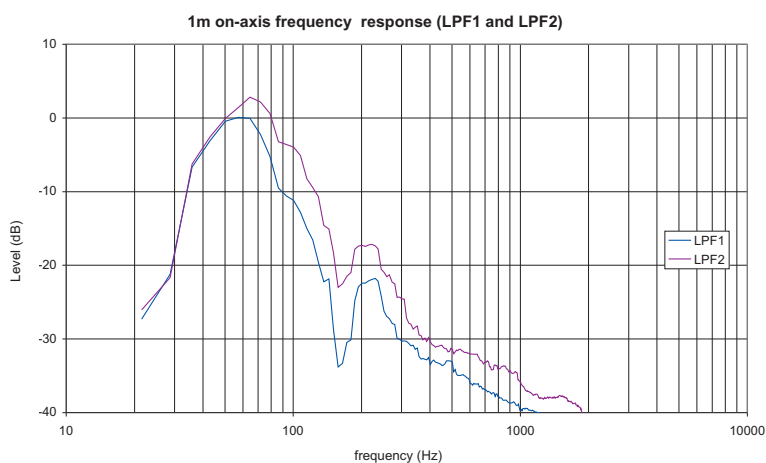
PERFORMANCE MEASUREMENTS



FEQUENCY
RESPONSE



FEQUENCY
RESPONSE



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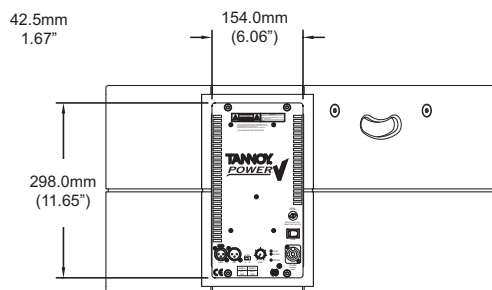
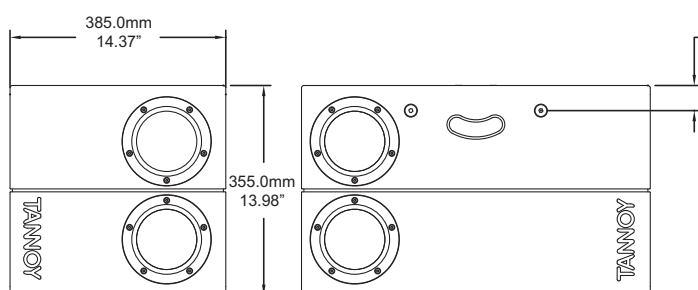
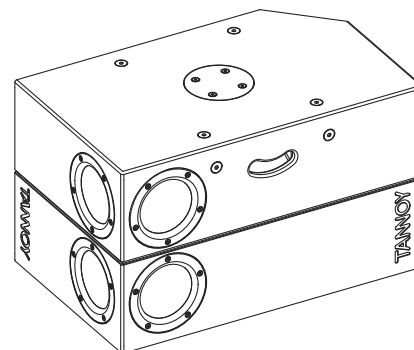
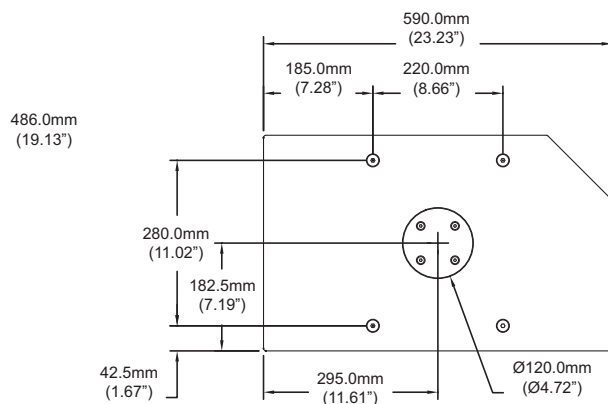
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DIMENSIONAL SKETCHES



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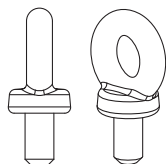
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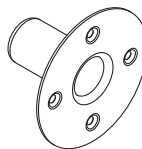
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OPTIONAL ACCESSORIES & MOUNTING OPTIONS



VEB



VTH

Ordering Information

PART NUMBER	MODEL NAME	COLOUR	PACKED QUANTITY
8001 2820	VEB	-	1
8001 2860	VTH	Black	1
8001 2870	VTH	White	1

Architectural specifications

The loudspeaker shall be of the vented bandpass type consisting of one 250mm (10.00") long excursion low frequency transducer mounted on an internal baffle and driven by an integrated single channel (bridged) Class D amplifier with user selectable low pass filter.

The optimally tuned enclosure shall be of 15mm (0.62") MDF construction finished in a wear resistant, textured black paint, fitted with two blanking plates allowing the bass ports to be repositioned for usage of the product in various orientations. There shall be eight M10 rigging points and a blanking plate for the installation of a pole mount socket.

Performance of the subwoofer shall meet or exceed the following criteria: Frequency response measured at 1 metre on axis with swept sine wave shall be 37Hz to 80Hz (-3dB) with low pass filter A switched on and 37Hz to 110Hz (-3dB) with low pass filter B switched on. Rated average SPL shall be 118dB (anechoic) on axis at 1 metre. Connectors shall be 1 x female XLR (input), 1 x male XLR (link) and 1 x Neutrik Powercon. The speaker shall be fitted with the following controls and indicators: level control, blue power LED, green signal LED, red limit LED, user selectable LPF and a power switch.

The enclosure shall not exceed the following dimensions: 335 x 385 x 590mm or 13.98 x 14.37 x 23.23" (H x W x D)

The Tannoy subwoofer loudspeaker system shall be... POWERVS10 BP



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