

## NUQ SERIES ENGINEERING INFORMATION

The B-12DP is a compact self-powered front-loaded single 12" subwoofer enclosure incorporating integral amplifiers and control electronics. The use of DSP amplifier technology ensures an exact match between amplifier and speaker for optimum acoustic output, and offers exceptional ease of use by having the entire electro-acoustic system in one convenient, easily transportable physical package. The B-12DP is designed for use as a low frequency support and powerpack for portable speech and music sound reinforcement applications.

The B-12DP consists of a custom 12" neodymium low frequency driver in a direct radiating enclosure optimally tuned for extended low frequency response, together with a Class D power amplifier module utilising revolutionary 96kHz DSP technology to give operating efficiency in excess of 90%. One channel of the 2 x 1250w amplifier drives the sub-bass loudspeaker, while the other channel provides a satellite output capable of driving multiple NuQ satellite cabinets.

The cabinet is constructed from 15mm (5/8") birch plywood, screwed and glued together

for maximum strength and rigidity, and it is finished as standard in durable semi-matt black textured paint. A perforated steel mesh grille backed with reticulated foam protects the drive unit. An integral pole mount socket is fitted to the top of the enclosure to allow two-way cabinets to be mounted at the correct height above the subwoofer. Internal M10 rigging points are fitted on the sides, top and bottom to enable rigging in fixed installations.

The rear panel provides all the connectors and indicators to enable correct operation. A Neutrik™ Powercon connector provides mains input to the unit—the switch mode power supply is auto-sensing over a range from 100 volts to 240 volts—and 3-pin XLR's are used for input and parallel link signal connections. RJ45 network connectors enable multiple loudspeakers to be controlled and monitored over a BVNet network using TurboDrive™ software. An NL4 speaker output drives satellite mid/high cabinets from the second amplifier channel.



### FEATURES

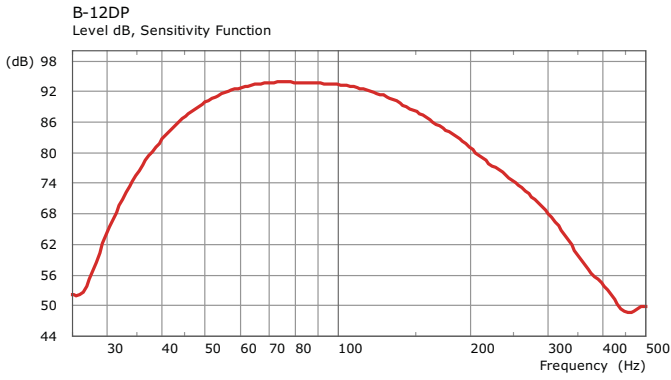
- Digitally self-powered**
- Ultra-compact**
- High efficiency**
- Pole mount socket**
- M10 rigging points**

### APPLICATIONS

- Front of house**
- Theatre**
- Houses of Worship**
- Corporate / industrial**

<b>DIMENSIONS (HxWxD)</b>	360mm x 462mm x 490mm (14.2" x 18.2" x 19.3")	
<b>COMPONENTS</b>	1 x 12" (305mm) LF driver	
<b>FREQUENCY RESPONSE</b>	45Hz - 125Hz $\pm$ 3dB, 30Hz - 125Hz $\pm$ 10dB	
<b>MAXIMUM SPL</b>	121dB continuous, 127dB peak	
<b>CONSTRUCTION</b>	15mm (5/8") birch plywood; rebated, screwed and glued. Finished in black semi-matt textured paint. Integral pole mount socket	
<b>GRILLE</b>	Powder coated perforated steel with acoustically transparent reticulated foam	
<b>CONNECTORS</b>	Input: (1) XLR female, Link: (1) XLR male, pin 2 hot; Neutrik Powercon; (2) RJ45 network port (1) NL4 for satellite mid/highs	
<b>FLYING HARDWARE</b>	(8) M10 rigging points for use with M10 eyebolts	
<b>AMPLIFIER</b>	<b>TYPE:</b>	Class D inc SMP and networked 96kHz DSP
	<b>POWER OUTPUT:</b>	2 x 1250 watts continuous @ 2 ohms (1kHz, 0.01% THD)
	<b>DYNAMIC RANGE:</b>	110dB
	<b>INPUT CLIP:</b>	10dBu
	<b>BANDWIDTH:</b>	20Hz - 20kHz $\pm$ 0.5dB
	<b>POWER REQUIREMENTS:</b>	100V to 240V AC @ 50/60Hz
<b>SPARES AND ACCESSORIES</b>	LS-1223	12" (305mm) LF loudspeaker
	RC-1223	Recone kit
	MG-B12	Replacement grille
	PA-90	90cm straight pole
	PA-120	120cm straight pole

**FREQUENCY  
RESPONSE**



**ARCHITECTURAL  
& ENGINEER'S  
SPECIFICATIONS**

The system shall be of the self-powered subwoofer type consisting of one front-loaded 12" (305mm) low frequency loudspeaker and Class D amplifier comprising two independent channels capable of driving the subwoofer and additional satellite mid/high loudspeakers. Performance specifications of a typical production unit shall meet or exceed the following: frequency response, measured with swept sine wave input, shall be flat within  $\pm 3\text{dB}$  from 45Hz to 125Hz, and within  $\pm 10\text{dB}$  from 30Hz to 125Hz. Maximum SPL (peak) measured with music program at stated amplifier input shall be 127dB. Dimensions: 360mmH x 462mmW x 490mmD (14.2"H x 18.2"W x 19.3"D). The loudspeaker system shall be the Turbosound B-12DP. No other loudspeaker shall be acceptable unless submitted data from an independent test laboratory verify that the above combined performance / size specifications are equalled or exceeded.

**DIMENSIONS**

