



BGW

The ultimate motion picture power amplifier!



PROJECT 440™

**THE VX-440-HPS®
POWER AMPLIFIER**

The BGW VX-440-HPS® is an entirely new power amplifier, built with **unique** features especially useful in motion picture sound systems. The VX-440-HPS® includes special features not found in competitive units. Features such as a massive power supply to assure that even the most demanding dynamic will be reproduced with breathtaking authority. The rear mounted input level controls are in fact 1 db per step precision attenuators. With the cinema processor's outputs set at 500 millivolts (their ideal for best signal to noise), the stepped attenuators are set (once during installation only) for proper levels in the theatre. This optimizes the gain structure for the entire sound system and eliminates audible hum and noise introduced by the processor to amplifier wiring. Signal reduction pads on the processor outputs and reduced fader settings often needed to achieve proper sound levels in theatres are eliminated. Yet the most important feature of this extraordinary amplifier is its unprecedented sound quality and clarity.

The VX-440-HPS® is a fully rated 2 ohm per channel amplifier, allowing surround speakers to be wired in all parallel groups. Bridged into a 4 ohm load, the VX-440-HPS® delivers an astonishing 1750 watts, making it an ideal subwoofer amplifier.

Convenient rear panel switches provide ground lift, as well as bridged and dual mono operation.

VX-440-HPS® specifications:

POWER OUTPUT (Both channels driven, .008% THD @ 8 ohm rated output.)

8 ohms	4 ohms	2 ohms
475 Watts	725 Watts	1000 Watts

BRIDGED MONO POWER OUTPUT:

8 ohms	4 ohms
1275 Watts	1750 Watts

All other specifications can be found on BGW's VX-440 specification sheet.

HIGH PERFORMANCE STEREO™

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BGW VX Series Specifications

Power Output Per Channel (EIA 490A test method, both channels driven)				
	VX-440		VX-660	
	Stereo Mode	Bridged Mono	Stereo Mode	Bridged Mono
8 Ohms	475 W/ch	1275 W	660 W/ch	1750 W
4 Ohms	725 W/ch	1750 W	1050 W/ch	2450 W
2 Ohms	1000 W/ch		1500 W/ch	
70 volts	400 W/ch		660 W/ch	
Intermodulation Distortion	Less than 0.008% at rated 8 ohm output (SMPTE method, 60Hz & 7kHz, 4:1 ratio)			
Rise Time	6 μ s			
Slew Rate	20 V/ μ s (stereo mode), 40V/ μ s (mono mode)			
LF Damping Factor	>300:1 (ref. 8 ohms) below 50 kHz			
Small Signal Frequency Response	8 Hz - 56 kHz, +0/-3 dB 20 Hz - 20 kHz, +0,-0.3 dB			
Crosstalk	> 90 dB @ 20 Hz - 20 kHz			
DC Offset Voltage	< \pm 10 mV (5 mV typical)			
Hum & Noise Level	> 110 dB < 660 W (unwtd.) bal. (8 ohms, 20 Hz - 20 kHz)			
Voltage Gain	33.4 dB			
Input Impedance (@ 8 ohm rated power)	11k ohms balanced or unbalanced (balance input between pin 2 & 3)			
Input Sensitivity	0.775 Vrms for rated 8 ohm output			
Load Impedance	>= 2 ohms (stereo mode) >= 4 ohms (mono mode)			
Power Requirement	VX-660		VX-440	
	13.8 A @ 100 V		10 A @ 100 V	
	11.5 A @ 120 V		8 A @ 120 V	
	6.7 A @ 230V		5 A @ 230V	
	AC 50-60 Hz			
Dimensions Overall (h x w x d)	5.25 (3U) X 19 X 18.8 (inches)			
Dimensions behind front pane (h x w x d)	15.25 X 17 X 18.7 (inches)			
Weight	50 lbs (22.7 kg.) net, 58 lbs (26.3 kg.) shipping (VX-440) 58 lbs (26.3 kg.) net, 66 lbs (28.1 kg.) shipping (VX-660)			
Control	One 21 position detented rotary control precision input attenuator per channel. One (1) dB attenuation steps.			
Switches				
limiter on/off	No			
bridged operation	Yes			
dual mono mode	Yes			
ground lift	Yes			
subsonic filter	Yes			
faastLink™	Yes			
Cooling	Continuously variable fan speed based on accurate temperature sensing of heatsink modules. Front - to - rear air flow			
Polarity Convention	XLR Pin out: pin 2 = + pin 3 = - pin 1 = ground			
Warranty	3 Years standard, parts/labor			

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