Wall-Mount Power Vector Modular Amplifiers

Models WV100, WV150, and WV250



Bogen's Wall-Mount Power Vector modular amplifiers offer a wide range of power from which to choose from,
with three models ranging from 100W to 250W. The amplifiers are designed to work with both high- (70/25V)Descriptionand low- (4/8-ohm) impedance speaker systems.

Each model includes eight module bays for plug-in input modules and allows for up to four levels of priority between modules. Two module bays are capable of accepting signal processing plug-in output modules. Each module is controlled by an independent volume control with an associated signal/clip LED for signal status. An 11-segment LED output meter monitors output signal level.

Each model includes a motorized master volume control that can be controlled using a remote volume control panel (RVCP, sold separately).

- 100-,150-, and 250-watt models, each with a large power reserve
 - Capable of handling 70V, 25V, 8-ohm, and 4-ohm speaker loads
 - 8 module bays
 - · Wide selection of advanced plug-in modules
 - 2 module bays capable of handling signal processing plug-in output modules
 - 4 levels of priority between modules
 - 11-segment LED output level meter monitors the output level of the power amplifier with Peak and Average meter switch
 - · Adjustable output level limiter with limit indicator
 - Tape output available on front of unit
 - Optional front-mounted input combo jack with 1/4" stereo phone and female XLR capabilities
 - Motorized master volume control can be remotely operated
 - · Bass and treble controls with center detent
 - Two-color LED for each channel indicates input active/clipping

- Switch permits user to select either transformercoupled outputs or a direct low-impedance output
- Bass and treble control bypass switch (located in module bay 6)
- 125 Hz Lo-cut feature (switch located in module bay 6)
- 5-position barrier strip, with clamping washers, provides connections for speaker loads
- Master mute function overrides all audio from the mixer section of the amplifier
- Screw terminal for master mute and remote volume control functions
- Each of the 8 module bays has an associated independent volume control
- Remote volume control panel (RVCP) (sold separately)
- Requires flush-mount (Model BBF) or surfacemount (Model BBS) back boxes (sold separately)
- Requires front cover door (WMAD sold separately)
- UL and CSA Listed



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Technical Specifications

Power Output (RMS) WV100: WV150: WV250:	100W (140W Typical, @1 kHz/0.1%/4Ω) 150W (200W Typical, @1 kHz/0.1%/4Ω) 250W (340W Typical, @1 kHz/0.1%/4Ω)	Tape Out Output Level: Output Impedance:	4 VRMS @ FRP 50 ohms maximum
Frequency Response	25000 (57000 17) (370000 17) (370000 17) (370000 17) (370000 17) (370000 17) (370000 17) (370000 17) (370000 17) (370000 17) (370000 17) (370000 17) (370000 17) (370000 17) (370000 17) (370000 17) (3700000 17) (3700000 17) (3700000 17) (370000000 17) (37000000000000000000000000000000000000	Overload Protection:	Electronic overload protection (auto reset)
Transformer: Direct:	45-20 kHz; 0/-2 dB @ FRP 20-20 kHz; 0/-1 dB @ FRP	Thermal Protection:	Thermistor attached to heat sink
Distortion		Line Fusing:	Resettable circuit breaker
Transformer:	0.5% THD+N, Maximum,	Cooling:	Thermally controlled 3-speed fan
Direct:	Full-rated bandwidth @ FRP 0.1% THD+N, Maximum, Full-rated bandwidth @ FRP	Power Consumption:	WV100: 2.0A @ 120V AC, 60 Hz WV150: 3.5A @ 120V AC, 60 Hz WV250: 5.5A @ 120V AC, 60 Hz
Signal-to-Noise Fundamental: With Aux Module: With Mic Module: With Tel Module:	-94 dB* -70 dB* -60 dB* -70 dB*	Dimensions: WV100/150/250: BBF: BBS: WMAD:	14-1/8" W x 21" H 14-1/2" W x 24-3/4" H x 3-7/8" D 16-1/4" W x 26-3/4" H x 3-7/8" D 16-1/4" W x 26-3/4" H x 1" D
Tone Controls Bass Frequency: Treble Frequency: Low Cut Frequency:	100 Hz (+/- 10 dB minimum) 10 kHz (+/- 10 dB minimum) 125 Hz @ -6 dB/octave	Product Weight: VVV100: VVV150: VVV250:	27 lb. 29 lb. 28 lb.
Sensitivity:	0.4V (at backplane connector)	BBF:	14 lb.
Output Regulation:	2 dB or better no load to full load	BBS: WMAD:	18 lb. 11 lb.
Output Impedance Transformer-Coupled: Direct Coupled:	70V, 25V, 8 ohms; balanced or unbalanced 4 ohms unbalanced		

* Referenced to full-rated power (FRP) output level, 20-20 kHz bandwidth limited. All specifications subject to change without notice.

 Architect and Engineer
Specifications
The amplifier shall be a Bogen Wall-Mount Power Vector Amplifier, Model WV100, WV150 or WV250. The amplifier shall be compatible with both high- (70/25V) and low- (4/8ohm) impedance speakers, with the capability of 100, 150, or 250 watts, respectively.

> The amplifier shall provide 8 module bays for plug-in input modules with two of the bays also capable of handling plugin signal processing output modules. There shall be 4 levels of priority between modules.

> Each of the 8 module bays shall have an associated independent volume control. Each independent volume control shall have a signal/clip LED to indicate if a clipping condition is occuring at the module's output. Each amplifier shall also include detented bass and treble controls, as well as a motorized master volume control, which can be remotely operated using the RVCP accessory (sold separately).

> The amplifier shall include an adjustable output level limiter with indicator LED. A tape output jack shall be available on the front panel and an optional front panel input combo jack with 1/4" stereo phone and female XLR capabilities may be installed.

Screw terminals shall be provided for invoking a master mute function that will interrupt all audio from the mixer section of the amplifier.

An 11-segment LED output level meter will register either the average or peak level of the amplifier's output level, determined by an Average/Peak switch. Each amplifier shall have a Tone Control Bypass switch and a Low-Cut Filter switch located on the rear of the amplifier in module bay 6.

A switch will permit the selection of transformer-coupled output or direct output for speaker runs. Master mute and remote volume control functions are controlled using a screw terminal.

The amplifier shall be flush-mounted or surface-mounted into a wall using either a BBF or BBS back box (sold separately). A front cover door shall be required (WMAD sold separately). Each model shall measure 14-1/8" W x 21" H. The WV100 shall weigh 27 lb.; the WV150, 29 lb.; and the WV250, 28 lb.



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