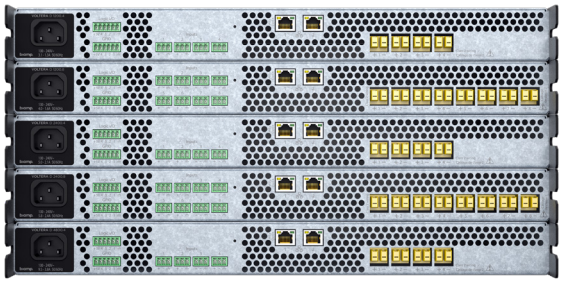
DATA SHEET
VOLTERA D
AMPLIFIED LOUDSPEAKER CONTROLLER



Voltera D Series seamlessly integrates amplification into a powerful loudspeaker controller that includes sophisticated tools for tuning rooms, resulting in a single, cost-effective networked solution.

A host of one-of-a-kind features drive flexibility, reliability and extraordinary audio performance. The combination of integrated DSP, high power and channel density, high efficiency and low idle power — along with support for power sharing and networked audio — delivers significant space and cost savings.

Available in 4 and 8 channel configurations from 1200 to 4800 W, the Voltera D Series is ideal for venues of any size, from restaurants to stadiums.

100% software configurable by Tesira or VenueTune software. VenueTune provides a phased workflow to guide system designers and installers, in-depth control through an intuitive graphical interface, and support for importing 2d backgrounds such as floorplans.

FEATURES

- Integrated DSP provides essential capabilities for loudspeaker management
- Up to 4800 W in single RU
- Up to 8 channels in single RU
- No central resource to limit system size
- High peak voltage output capability (up to 237Vpk)
- Power sharing provides up to 75% of total power through any single channel
- Each model supports AVB, Dante, and AES67
- Each channel can drive low impedance (2.7, 4, 8, and 16 ohm), 70V, or 100V
- Onboard processing means system cost scales with power requirements
- The ALAMOS loudspeaker profile library, with nearly 700 unique profiles covering over 200 Biamp models, streamlines commissioning when using Tesira or VenueTune software
- Group-controlled raised cosine EQ making it attractive for large systems
- Accurate raised cosine EQ for the entire frequency band
- Comprehensive limiter scheme avoids protective mutes and shutdowns
- Processor can be sustained through POE – no main power required and no reboots
- Support for failover-to-analog operation
- Wide dynamic range
- High power and channel density
- 5-year warranty
- Compliant with the US Trade Agreement Act (TAA)
- Biamp Workplace Ready

VOLTERA D SPECIFICATIONS

Model	D 1200.8	D 1200.4	D 2400.8	D 2400.4	D 4800.4
General					
Number of Class D ampifier channels	8	4	8	4	4
Total output all channels driven	1200 W	1200 W	2400 W	2400 W	4800 W
Maximum output voltage	145 Vpk	145 Vpk	145 Vpk	160 Vpk	237 Vpk
Maximum output current	24 Apk	29 Apk	33 Apk	40 Apk	57 Apk
Power per channel all channels driven					
Hi-Z (70 / 100 V)	150 W	300 W	300 W	600 W	1200 W
16 ohm	150 W	300 W	300 W	600 W	1200 W
8 ohm	150 W	300 W	300 W	600 W	1200 W
4 ohm	150 W	300 W	300 W	600 W	1200 W
2.7 ohm	150 W	300 W	300 W	600 W	1200 W
Max power per channel using power sharing[1]					
100 V	600 W	900 W	1200 W	1800 W	3600 W
70 V	600 W	900 W	1200 W	1800 W	3300 W
16 ohm	600 W	650 W	650 W	800 W	1750 W
8 ohm	600 W	900 W	1200 W	1600 W	3500 W
4 ohm	600 W	900 W	1200 W	1800 W	3600 W
2.7 ohm	600 W	900 W	1200 W	1800 W	3600 W
[1]Available on any channel					
Network					
Ports	2 1000Base-T ports				
Networked media formats supported	Dante, AES67 and AVB				
Network modes supported	Converged, split or redundant				
PoE+ support	If port 1 is connected to a PoE+ switch with a UPS, then the Voltera D will not reboot when mains power is lost				
Network latency	AVB: 2 ms, Dante : 1 / 2 ms				
Sample rates supported	96 and 48 kHz				
Remote interface	Tesira, VenueTune				
Third party interface	TTP				
Processing					
Latency (analog input to output)	2.65 ms (includes look-ahead delay in zero overshoot peak limiters)				
Default gain (analog input to output)	29 dB				
Per input	Supports input redundancy and failover to analog sources Multilayered group control of raised cosine EQ, gain, delay (≤2 s), polarity and mute 2048 tap FIR for optimization				
Per output	Very comprehensive processing supporting loudspeaker profiles including • 2048 tap FIR, 24 biquads • Dynamic EQ • Peak and thermal limiters with side chains				
Startup time with PoE+	<1 s				
Audio performance					
THD+N (1000 Hz, at 1 dB below max output)	<0.05%				
THD+N (20 - 20000 Hz for 1 W)	<0.05%				
Frequency response	+/-0.5 dB (20 - 20000 Hz, 8 ohm, unweighted)				
Channel separation (crosstalk at 1 kHz)	>70 dB				
Dynamic range	117 dB				
Back panel interface					
Control and monitoring IO	Mute all channels (input), Health (output), Sleep mode status (output), Sleep mode (input)				
Programmable GPIO	4 logic/voltage control pins, defined using Tesira software				
Analog input connectors	3-pin terminal block connectors with 0.15" (3.81 mm) pitch				
Output connectors	2-pin terminal block connectors rated for 41 Arms. Can take up to 8 mm2 (8.2 AWG) cables				
Detachable mains connector	3-pin IEC C14 inlet for C13 cables				
Front panel interface	Tamper proof design				
Locate	Bi-directional locate funtionality				
System status indicator	Shows if there are faults within the greater system				
Device status indicators	Status, activity and faults				
Channel status indicators	Mute, signal, limit and temp				
Power and environmental					
Cooling	Variable speed fans, front to back airflow				
Operating temperature	32-104F (0-40C)				
Relative humidity	0-95% non-condensing altitude 0 - 2000 m (0-6562 ft)				
Nominal Voltage	100-240 VAC, 50/60 Hz				
Mechanical					
HxWxD (rack rail to rear panel)	1.7 x 17.5 x 16.9 inches (44 x 444 x 430 mm)				
Weight	18.1 lbs (8.2 kg)	17 lbs (7.7 kg)	18.3 lbs (8.3 kg)	17.2 lbs (7.8 kg)	18.3 lbs (8.3 kg)
Included accessories	Rear support kit for 19" 1 RU mount				

The power figures are measured using a 25 ms burst repeated every 400 ms with a sustained average at 1/8th power (i.e. a 12 dB crest factor)

Biamp strives to improve its products on a continual basis. Specifications are therefore subject to change without notice.

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