DATA SHEET
VOLTERA® A SERIES
COMPACT 2 / 4-CHANNEL, 300 AMPLIFIER MODELS

The Voltera® A 300 W amplifiers are half-rack power amplifiers with a total power of 300 W delivered by two or four channels in a sleek, compact design. The amplifier channels are extremely flexible in that they can individually be selected to drive either 4 ohm, 8 ohm, 70 V or 100 V. They also support power sharing so that up to twice the power can be delivered by any channel. Every A Series amplifier ships with mounting accessories for a variety of mounting options.

The A Series is ideal for restaurants, hotels, bars, education, small houses of worship, corporate or other applications where sound distribution or reinforcement is needed.

BENEFITS

- Compact design for versatile placement
- Quick and easy installation
- Low heat emission (designed to become Energy Star certified)
- Perfectly matched for Tesira applications, but also compatible with a wide variety of third-party speakers

FEATURES

- Half width allows single or tandem mounting in 1 RU[1]. Can be mounted in a variety of other locations (under tables, on walls behind screens/monitors, in ceilings, on shelves in credenzas)[1]
- Default 4 dBu input sensitivity no matter what load means that it is easy to drive with any source
- Includes manual per channel configuration: Mode switches for Lo/Hi-Z, Gain trim[2] and high-pass filter option
- The high power capability necessitates fans, but they are thermally controlled and support whisper mode for normal operation
- Comes with Tesira processing blocks for relevant Biamp loudspeakers
- Auto standby mode
- Each channel can drive up to twice its rated power
- CE marked, UL listed, and RoHS compliant
- Covered by Biamp Systems' five-year warranty

[1]: Using included accessories
[2]: The Gain trim can boost both the gain and the power by up to 3 dB

VOLTERA A SERIES SPECIFICATIONS

Model	A 300.4	A 300.2
Output section		
Total output all channels driven	300 W	300 W
Number of channels	4	2
Maximum output voltage	147 Vpk	147 Vpk
Maximum output current	13 Apk	16 Apk
Power per channel all channels driven		
100/70V	75 W	150 W
8 ohm	75 W	150 W
4 ohm	75 W	150 W
Max power per channel using power sharing[1]		
100/70V	150 W	300 W
8 ohm	150 W	300 W
4 ohm	150 W	300 W
[1] : Available on any channel if the trim is set to +3 dB		
THD+N (20 - 20000 Hz for 1 W into 8 ohm)	<0.5%	<0.5%
THD+N (1 kHz, 1 dB below clip)	<0.008%	<0.008%
Frequency response (20 - 20000 Hz, 8 ohm, unweighted)	+/-0.5 dB	+/-0.5 dB
Signal to Noise ratio (8 ohm)	>103 dBA	>103 dBA
Channel separation (crosstalk at 1 kHz)	>75 dB	>75 dB
Input impedance (balanced)	8 kohm	8 kohm
Input sensitivity (for all Mode options)[2]	+4 dBu (1.23 Vrms)	+4 dBu (1.23 Vrms)
Max input level	+24 dBu	+24 dBu
Gain for 70 / 100 V[3]	35.2 / 38.2 dB	35.2 / 38.2 dB
Gain for 8 ohm[3]	26 dB	29 dB
Gain for 4 ohm[3]	23 dB	26 dB
[2] : With the gain trim set at 0 to +3 dB		
[3] : With the gain trim set at 0 dB		
Front panel indicators		
temp	Amplifier channel and power supply temperature	
limit	Shows if the limiters are engaged	
signal	Signal status per channel	
mute	Shows if the mute input is engaged	
power	Shows if it is on / standby	
Rear panel controls/indicators		
Signal level indicator	Signal level and limiter action	
Mode switch / ch. (4 Ω / 8 Ω / 70 V / 100 V)	Defines the gain and the limiter thresholds	
High pass filter	70 Hz 12 dB/octave (on/off)	
Gain trim (default 0 dB)	In addition to reducing the gain down to -infinity, it can boost the gain and power by up to 3 dB	
Control/monitoring IO	Mute all channels (input)	
	Health (output)	
	Sleep mode status (output)	
	Sleep mode (input)	

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Included accessories	Rack solution for single/tandem 19" 1 RU mount
	Brackets for mounting under table/on wall/under ceiling
Overall dimensions	
HxWxD	1.7 x 8.7 x 11.4 inches (44 x 220 x 290 mm)
Weight	6.1 lbs (2.7 kg)
Cooling	Variable speed fans, front to back airflow
Environmental	
Operating temperature	32-104°F (0-40°C)
Relative humidity	0-95% non-condensing
Power	100-240 VAC, 50/60 Hz
Standby	<1 W (designed to meet Energy Star requirements)

Subject to change without prior notice