

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
- Met Works with WELL licensing criteria for sound masking
- 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 RU¹. 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 trim² 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) | |

VOLTERA A SERIES SPECIFICATIONS

| | |
|-----------------------|---|
| 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) |

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