

HSA SERIES

HSA300, HSA2-400

AMPLIFIERS

The **HSA300** is a single channel amplifier with direct 100 V line (high impedance) output. It's equipped with Ecler's proprietary SPM 100 Technology - Channel N, which allows for 100 V speaker lines connection without using 100 V line transformers, as this kind of amplifiers usually do. This fact has many advantages, being the main one the excellent audio quality, specially improved in the low-end frequencies when compared to classical 100V line amplifiers.

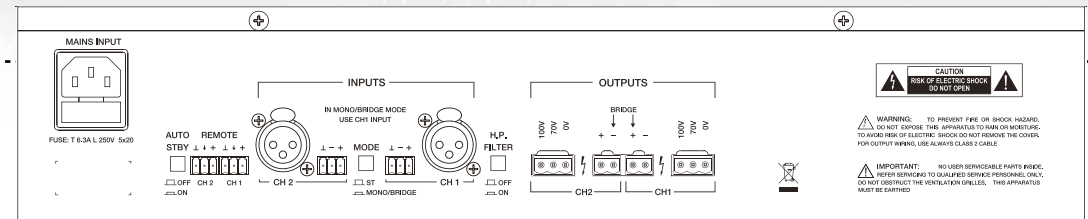
Key features

- 1 mono balanced input
- 1 x 260 W output (100V line level)
- Euroblock connectors
- SPM 100 amplification Technology - Channel N (no 100 V output transformers used):
 - Improved frequency response (specially at the low-end)
 - Great efficiency
 - Low weight
- Butterworth, 3rd order high pass filter @ 70Hz
- Thermal protection
- Overload protection
- Anti-clip system

The **HSA2-400** is a stereo amplifier with low and impedance powered outputs. A very high efficiency and an auto stand-by function provide this amplifier with a true green profile.

Key features

- 2 mono balanced inputs (XLR and Euroblock terminals)
- 2 x 400 W RMS output (4Ω and 70/ 100V line level)
- Euroblock output connectors
- 2 REMOTE volume ports (0-10VDC), compatible with WpM series wall panels
- High efficiency, auto stand-by function and convection cooling (fanless, 100% silent)
- Butterworth, 3rd order high pass filter @ 50Hz
- Thermal protection
- Overload protection
- Anti-clip system



Technical Characteristics	HSA300	HSA2-400
Power output @ 100VRMS	254 WRMS@32Ω	410 WRMS @ 25Ω
Power output @ 100VRMS 10%THD	302 WRMS @ 32Ω	N/A
Power output All Channels @ 25W	N/A	332 WRMS
Power output 1 Channel @ 4W	N/A	390 WRMS
Power output 1 Channel @ 8W	N/A	225 WRMS
Power output All Channels @ 4W	N/A	322 WRMS
Power output 1 Channel @ 2.666W	N/A	506 WRMS
Frequency response (-1dB, -3dB):	30Hz - 35kHz	20Hz - 30kHz
Filter (High-Pass) 3rd order Butterworth	70Hz	50Hz
THD+Noise @ 1kHz Full Pwr.	<0.07%	<0.05%
SNR		>85dB
Damping factor 1kHz @ 8W:	N/A	>360
Input Sensitivity / Impedance	0dBV/>20kΩ	0dBV/>20kΩ

Applications

- Single or multi-zone BGM and paging systems with 100V line speakers, combined with the DAM, MIMO and SAM series preamplifiers / processors

Suggested loudspeakers

- AUDEO series
- IC / IW / ICPLUS series
- AMBIT series
- ECL106 series
- IG108 in ground loudspeaker

	HSA300	HSA2-400
Mains voltage	See characteristics in the back of the unit	See characteristics in the back of the unit
Power consumption pink noise, 1/8 power pink noise, 1/3 power	218VA @ 32Ω 319VA @ 32Ω	196VA @ 4Ω 452VA @ 4Ω
Dimensions	482.6x88x285mm	482.6x88x373mm
Weight	8.4kg	16.4kg