

## HSA2-400ES

HIGH IMPEDANCE (70/100V)

*High Impedance Stereo Amplifier - Energy Star Certified*



### PRODUCT OVERVIEW

HSA2-400ES is a stereo amplifier with low and high impedance powered outputs. A very high efficiency and its auto stand-by function provide this amplifier with a true green profile (Energy Star Certified).

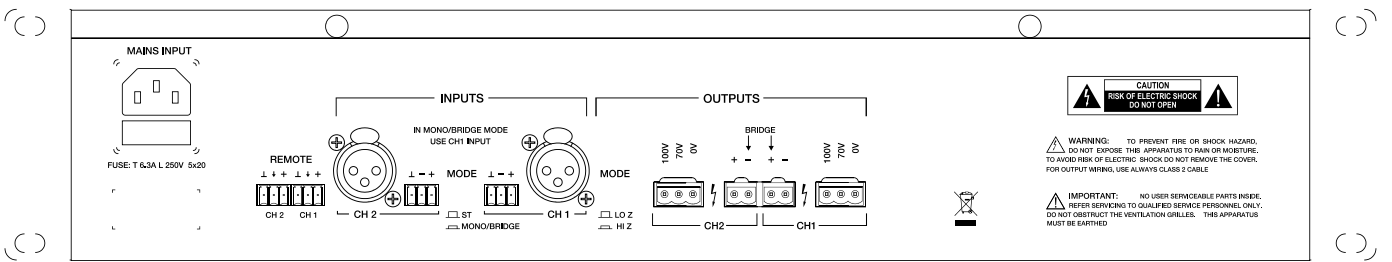
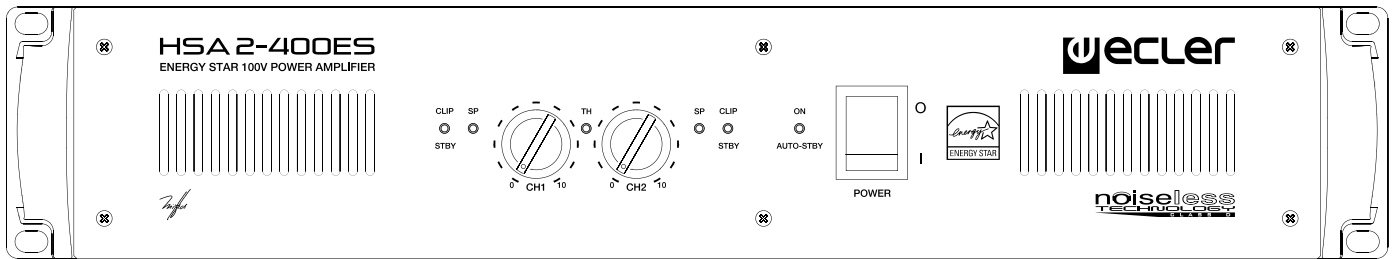
#### KEY FEATURES

- Energy Star certified
- 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
- Volume control knobs on front panel with protection cap, against undesired manipulation

#### APPLICATIONS

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

MECHANICAL DIAGRAMS



TECHNICAL DATA

<b>Power Output @ 1kHz 1% THD</b>	<b>100V output:</b>
1 Channel @ 25Ω	450 WRMS
All Channels @ 25Ω	400WRMS
	<b>Low Z output:</b>
1 Channel @ 4Ω	390WRMS
1 Channel @ 8Ω	280WRMS
All Channels @ 4Ω	350WRMS
1 Channel @ 8 Ω	700WRMS
<b>Frequency Response (-1dB, -3dB)</b>	20Hz – 40kHz
<b>Filter (High-Pass) 3rd order Butterworth</b>	50Hz
<b>THD+Noise @ 1 kHz Full Pwr.</b>	<0.05%
<b>Intermodulation Distortion 50Hz &amp; 7kHz, 4:1</b>	<0.06%
<b>TIM 100</b>	<0.04%
<b>S+N/N 20Hz – 20kHz @ 1W/4Ω</b>	>85dB
<b>CMRR</b>	>55dB
<b>Damping Factor 1kHz @ 8Ω</b>	>360
<b>Channel Crosstalk @ 1 kHz</b>	>55dB
<b>Input Sensitivity/Impedance</b>	0dBV/>20kΩ
<b>Anticlip @ 2dBV input</b>	<5% THD
<b>Mains Voltage</b>	115V/230V. Voltage changed internally (NOT BY SWITCH)
<b>Power Consumption</b>	
Pink Noise, 1/8 power @ 4Ω	143W/204VA
Pink Noise, 1/3 power @ 4Ω	334W
Idle	25W
STBY	0.5W
<b>Efficiency (typical)</b>	85%
<b>STBY Time</b>	≤120s
<b>Dimensions (Handle excluded)</b>	482,6x88(2RU)x373mm / 19"x3.46"x14.68"
<b>Weight</b>	16,4 kg / 36.15 lb

All product characteristics are subject to variation due to production tolerances. NEEC AUDIO BARCELONA S.L. reserves the right to make changes or improvements in the design or manufacturing that may affect these product specifications.  
 Motors, 166-168 08038 Barcelona - Spain - (+34) 932238403 information@ecler.es [www.ecler.com](http://www.ecler.com)