**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
**Power Output**

@ 1kHz 1% THD

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Output (WRMS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Channel @ 25Ω</td>
<td>450</td>
</tr>
<tr>
<td>All Channels @ 25Ω</td>
<td>400</td>
</tr>
<tr>
<td>1 Channel @ 4Ω Low Z out</td>
<td>390</td>
</tr>
<tr>
<td>1 Channel @ 8Ω</td>
<td>280</td>
</tr>
<tr>
<td>All Channels @ 4Ω</td>
<td>350</td>
</tr>
<tr>
<td>1 Channel @ 8Ω</td>
<td>700</td>
</tr>
</tbody>
</table>

**SNR** >85dB

**Frequency Response** (20Hz – 40kHz)

**Filter (High-Pass)** 3rd order Butterworth

**THD+Noise @ 1 kHz Full Pwr.** <0.05%

**Intermodulation Distortion** 50Hz & 7kHz, 4:1

**TIM 100** <0.06%

**S+N/N 20Hz – 20kHz @ 1W/4Ω** >85dB

**CMRR** >55dB

**Damping Factor 1kHz @ 8Ω** >360

**Channel Crosstalk @ 1 kHz** >55dB

**Input Sensitivity/Impedance**

0dBV/>20kΩ

**Anticlip @ 2dBV input** <5% THD

**Mains Voltage** 115V/230V. Voltage changed internally (NOT BY SWITCH)

**Power Consumption**

Pink Noise, 1/8 power @ 4Ω 143W/204VA

Pink Noise, 1/3 power @ 4Ω 334W

Idle 25W

STBY 0.5W

**Efficiency (typical)** 85%

**STBY Time** ≤120s

**Dimensions (Handle excluded)** 482.6x88(2RU)x373mm / 19"x3.46"x14.68"

**Weight** 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.