

HZA4-70F

HIGH IMPEDANCE (70/100V)

Flexi-Power Amplifier



PRODUCT OVERVIEW

The HZA4-70F is a four MERGING channel amplifier with direct 4 x 70 WRMS @ 100 V line (high impedance) outputs. It integrates Ecler's proprietary SPM 100 Technology - Channel N, which allows for 100 V speaker lines connection without using 100 V line transformers at the amplified outputs, as this kind of amplifiers usually do. This fact has many advantages, being the main ones the audio quality improvement (specially in the low-end frequencies) and the convection cooling, 100% silent.

KEY FEATURES

- 4 mono balanced inputs
- 4 x 70 W amplified outputs (100V line level)
- 4 volume remote control ports (0 - 10 VDC)
- Euroblock connectors
- SPM 100 amplification Technology - Channel N (no 100 V output transformers used):
 - Improved frequency response (specially at the low-end)
 - Convection cooling (100% silent and increased reliability)
 - Great efficiency
 - Low weight
- Auto stand-by function after 2 minutes without audio input signals, with instantaneous auto-recovery
- Thermal protection
- Overload protection
- Anti-clip system
- Volume control knobs on front panel with protection cap, against undesired manipulation
- Every 2, 3 or 4 adjacent channels can be merged, adding their output power and managing their signal routing and volume control as a single merged channel

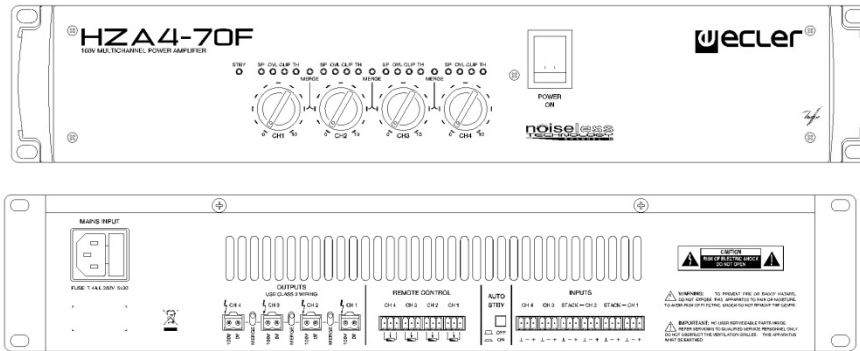
APPLICATIONS

- Multi-zone BGM and paging systems with 100V line speakers, combined with the DAM614, MIM088 matrixes and SAM / eSAM series preamplifiers

CERTIFICATIONS

- EN60065:2014
- EN55103-1:2009
- EN55103-2:2009
- 2006/95/EC
- 2004/108/CE

MECHANICAL DIAGRAMS



TECHNICAL DATA

| | |
|--|--|
| Output power @ 1% THD | |
| 1 Channel | 74 WRMS @ 136Ω |
| 2 Merged Channels | 140 WRMS @ 72Ω |
| 4 Merged Channels | 204 WRMS @ 50Ω |
| 4 Merged Channels | 260 WRMS @ 38Ω |
| Output power @ 10% THD | |
| 1 Channel | 93 WRMS @ 88Ω |
| 2 Merged Channels | 163 WRMS @ 50Ω |
| 4 Merged Channels | 245 WRMS @ 32Ω |
| 4 Merged Channels | 312 WRMS @ 26Ω |
| Frequency response (-3dB) | 30Hz - 55kHz |
| High pass filter 3rd order Butterworth | 70Hz |
| THD+Noise @ 1kHz Full Power | <0.03% typ. 0.2% max. |
| Signal Noise Ratio @ 100V | >90dB |
| Channel Crosstalk @ 1kHz/100V | >90dB |
| Inputs | |
| Sensitivity nom / Impedance | 0dBV/>20kW |
| Connectors | Terminal Block (Symmetrical) |
| Outputs | |
| Connectors | Terminal Block |
| Indicators | |
| Power | Green (ON), Red (Standby) |
| Signal Present | -35dB |
| Clip | Yes |
| Overload | Yes |
| Thermal | Yes |
| Remote control | |
| DC | 0-10V/0.1A max |
| No attenuation | 0V |
| Full attenuation | +10V |
| Connectors | Terminal block |
| Auto power | |
| Threshold | >-30dB aprox |
| Time | 100 sec. aprox |
| Mains voltage | Depending on your country. See characteristics in the back of the unit. |
| Power consumption | |
| pink noise, 1/8 power @ 136Ω | 298VA |
| pink noise, 1/3 power @ 136Ω | 407VA |
| Standby | <3W |
| Dimensions | |
| Panel | 482.6 x 88mm |
| Depth (Handle excluded) | 373mm |
| Weight | 12.75kg |

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.
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