

HZA4-120F

HIGH IMPEDANCE (70/100V)

Flexi-Power Amplifier



PRODUCT OVERVIEW

The HZA4-120F is a four MERGING channel amplifier with direct 4 x 120 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 120 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

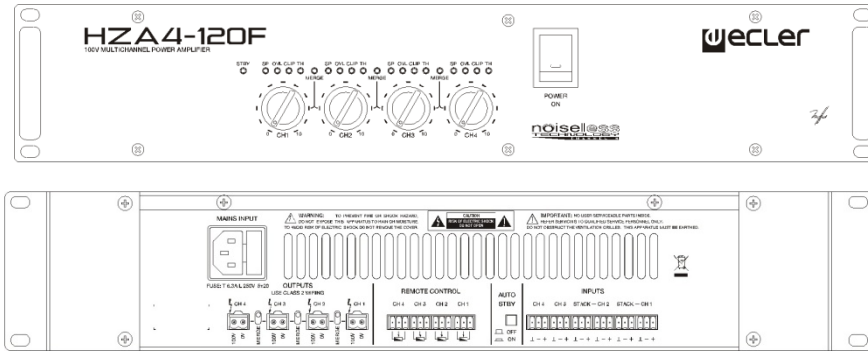
APPLICATIONS

- Multi-zone BGM and paging systems with 100V line speakers, combined with the DAM614, MIMO88 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	114 WRMS @ 88Ω
2 Merged Channels	195 WRMS @ 50Ω
4 Merged Channels	290 WRMS @ 32Ω
4 Merged Channels	356 WRMS @ 26Ω
Output power @ 10% THD	
1 Channel	145 WRMS @ 88Ω
2 Merged Channels	226 WRMS @ 50Ω
4 Merged Channels	348 WRMS @ 32Ω
4 Merged Channels	430 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	340VA
pink noise, 1/3 power @ 136Ω	470VA
Standby	<3W
Dimensions	
Panel	482.6 x 88mm
Depth (Handle excluded)	392mm
Weight	13.60kg

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