

## eHSA4-60

### HIGH IMPEDANCE AMPLIFIERS

*High and low impedance multichannel amplifier*



### PRODUCT OVERVIEW

eHSA4-60 is a 4x60W multichannel amplifier capable of working on both low impedance lines (8 / 4Ω) and high impedance lines (70/100V). It can link the input channels, so that the same input signal can be easily distributed to several or all output channels. Independent auto stand-by function per channel.

The Ecler Essentials eHSA line of amplifiers offers the renowned professional reliability of Ecler amplifiers at an affordable price. All models in the series use class D amplification – a very high-performance technology –, auto stand-by function and convection ventilation, only occupying 1 rack unit high.

Equipped with balanced inputs on Euroblock connectors. Outputs also feature Euroblock connectors. It has an electronic limitation system to avoid signal saturation and a thermal protection, as well as a protection system against overload.

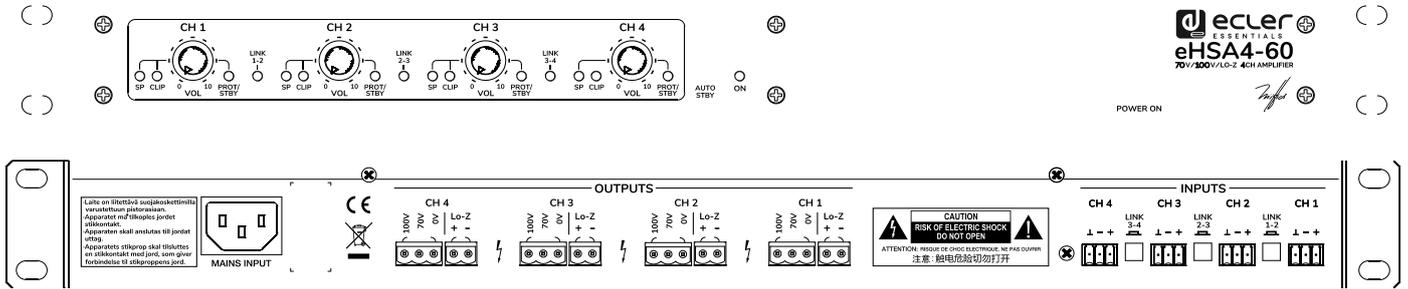
### KEY FEATURES

- 4-channel amplifier
- 60W per channel
- Each channel has independent outputs for low impedance or for high impedance
- Controls for input attenuation in the frontal panel easily accessible.
- Class D amplification, high efficiency
- Auto stand-by, independent by channel
- Linking of adjacent inputs (Input link selector)
- Signal presence (SP), clipping (CLIP), protection against overload (PROT) and thermal protection (TH) indicators.
- Built-in, always active anticlip circuit
- Balanced inputs on Euroblock connectors
- Powered outputs on Euroblock connectors

### APPLICATIONS

- Commercial
- Hospitality
- Education
- Corporate

MECHANICAL DIAGRAMS



TECHNICAL SPECIFICATIONS

|                                      |  |
|--------------------------------------|--|
| <b>eHSA4-60</b>                      |  |
| <b>Output power</b>                  |  |
| Max output power <sup>1</sup> @ 4Ω   | 60W  |
| Max output power <sup>1</sup> @ 100V | 60W  |
| <b>Signal</b>                        |  |
| Input sensitivity                    | 0dBV   |
| Input impedance                      | >20kΩ  |
| Frequency response                   | Lo-Z output @ 4Ω: 70Hz - 30kHz (-3dB)<br>Hi-Z output @ 100V: 70Hz - 20kHz (-3dB) |
| THD + Noise                          | Lo-Z output @ 4Ω: <0,06%<br>Hi-Z output @ 100V: <0,1%                            |
| SNR                                  | Lo-Z output @ 4Ω: >90dB<br>Hi-Z output @ 100V: >70dB                             |
| Channel crosstalk                    | >65dB @ 1kHz   |
| Channel CMRR                         | >60dB @ 1kHz   |
| <b>AC Mains power</b>                |  |
| AC Mains requirement                 | 100 – 240VAC, 50 – 60 Hz (±10%)  |
| <b>Power Consumption</b>             |  |
| Power Consumption (1/3 Power, @ 4Ω)  | 106W / 115VA   |
| Power Consumption (1/8 Power, @ 4 Ω) | 52W / 68VA   |
| Power Consumption (IDLE)             | 15W / 30VA   |
| Power Consumption (STBY)             | 7,6W / 18VA  |
| <b>Settings</b>                      |  |
| Auto stand-by threshold              | 40dB / 50dB, Internally Selectable   |
| Auto stand-by time                   | 90 seconds   |
| <b>Physical</b>                      |  |
| Dimensions (WxHxD)                   | 482,6 mm x 44mm x 280mm / 19" x 1.7" x 11"                                       |
| Weight                               | 7,8 kg. / 17.2 lb.   |

<sup>1</sup>All channels driven @ 1%THD

## A&E SPECIFICATIONS

The amplifier shall be a multichannel amplifier with a 60W maximum output power per channel, capable of working on both low impedance lines (8 / 4Ω) and high impedance lines (70/100V). The amplifier shall have four audio input channels, and four amplified audio outputs. Switches on the rear panel shall allow link the input channels in pairs so the same input signal can be easily distributed to several or all output channels.

The construction shall be transformer-less, using Class-D Amplifier technology and powered by a switching power supply. Each channel shall have integrated circuitry to protect against short-circuits or mismatched loads and over-heating. The operating temperature for each channel shall be continuously monitored and convection ventilation shall ensure the operating range while minimizing the acoustic noise. Additionally, the load shall be protected against DC faults and a clip limiter shall automatically reduce the input gain at onset of distortion. The auto Stand-by setting shall be independent by channel and the threshold shall be 40/50dB internally selectable.

The front panel shall contain an AC power switch with a power indicator LED and channel operation indicator LED's. A green signal LED indicating the presence of an audio input signal, a red clip LED indicating the channel operation at maximum level and a protection LED indicating any fault detected shall be provided for each channel. All connections shall be made on the rear panel of the unit.

The signal input connections shall be balanced using 3-pin Euroblock connectors. The output connections shall be performed using Euroblock connectors.

The integrated power supply shall allow the amplifier to work on a 100-240V AC / 50-60 Hz mains network and shall be equipped with a removable power cord having a standard shuko (CEE 7/7) AC plug. The connector on the amplifier chassis shall be a fused IEC C14 type. The amplifier chassis shall be a 1U steel constructed 19" housing. Dimensions shall be 482'6 x 44 x 365 mm and weight shall not exceed 7'8 Kg.

The amplifier shall be the ECLER eHSA4-60.



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.

For technical requests address to your supplier, distributor or fill the contact form in our website, at Support / Technical Request.

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