

# AURA-8B150

## COMMERCIAL AMPLIFIERS

### Multichannel LoZ & HiZ Amplifier



## PRODUCT OVERVIEW

**AURA-8B150** is a multichannel 8x150 W RMS @4Ω, high efficiency amplifier (class D). Compatibility with both Low and Hi impedance configurations and supporting dual or bridge mode (@4/8Ω). AURA Series are built with the highest robustness for long lasting performances with special power supply circuitry designed for optimized electrical consumption with fan cooling system. AURA Series also features the possibility of linking channels to the first input by selecting it on the rear panel, as well as auto stand-by, overload and thermal protection, PFC and anti-clipping system. The front panel volume knobs can be locked using rear panel switches for added security.

## KEY FEATURES

- 8 analogue audio inputs and 8x150 WRMS @4Ω powered audio outputs.
- Low (2, 4 and 8Ω) and high impedance (70/100V) compatibility via rear panel switch.
- Supports dual or bridge mode (@4/8Ω).
- Euroblock input and output connectors.
- Euroblock connectors with anti-pulling locking system.
- Link to input 1 available.
- The front panel volume control knobs can be locked using the rear panel switches for added security.
- High efficiency (Class D).
- Auto Standby function.
- Fan cooling.
- Thermal protection.
- Overload protection.
- Anti-clip system.

## APPLICATIONS

- Retail
- Hospitality
- Education
- Corporate
- Leisure
- Sport & Wellness
- Retail

## TECHNICAL SPECIFICATIONS

## AURA-8B150

|                                                         |                                                                                  |  |
|---------------------------------------------------------|----------------------------------------------------------------------------------|--|
| CHANNELS                                                |                                                                                  |  |
| Number of Outputs channels                              | 8                                                                                |  |
| Output connection type                                  | 4-pin Euroblock. Pitch: 5,08 mm                                                  |  |
| Output configuration                                    | 2 $\Omega$ , 4 $\Omega$ , 8 $\Omega$ , 100V, 70V and 4/8 $\Omega$ in Bridge Mode |  |
| Number of Inputs channels                               | 8                                                                                |  |
| Input connection type                                   | 3-pin Euroblock, balanced, pitch 3,5 mm                                          |  |
| Input configuration                                     | Input link to CH1 selector per input                                             |  |
| OUTPUT POWER All channels driven @1kHz @CF9dB @ 1%THD   |                                                                                  |  |
| Max output power @ 8 $\Omega$                           | 150 W                                                                            |  |
| Max output power @ 4 $\Omega$                           | 150 W                                                                            |  |
| Max output power @ 2 $\Omega$                           | 150 W                                                                            |  |
| Max output power @ 4 $\Omega$ bridge mode               | 300 W                                                                            |  |
| Max output power @ 8 $\Omega$ bridge mode               | 300 W                                                                            |  |
| Max output power @ 100V                                 | 150 W                                                                            |  |
| Max output power @ 70V                                  | 150 W                                                                            |  |
| OUTPUT POWER Single channel driven @1kHz @CF9dB @ 1%THD |                                                                                  |  |
| Max output power @ 8 $\Omega$                           | 150 W                                                                            |  |
| Max output power @ 4 $\Omega$                           | 150 W                                                                            |  |
| Max output power @ 2 $\Omega$                           | 150 W                                                                            |  |
| Max output power @ 4 $\Omega$ bridge mode               | 300 W                                                                            |  |
| Max output power @ 8 $\Omega$ bridge mode               | 300 W                                                                            |  |
| Max output power @ 100V                                 | 150 W                                                                            |  |
| Max output power @ 70V                                  | 150 W                                                                            |  |
| SIGNAL                                                  |                                                                                  |  |
| Voltage gain                                            | 34 dB                                                                            |  |
| Input sensitivity                                       | 0 dBV<br>2,21 dBu<br>1 Vrms                                                      |  |
| Input impedance                                         | 20k $\Omega$ balanced                                                            |  |
| Max input level                                         | +18dBV<br>20,21 dBu                                                              |  |
| Frequency response                                      | 15Hz - 30kHz (-3dB, 1W any load)                                                 |  |
| THD + Noise                                             | <0,1% ( @1kHz, from 0,1W to Full Power)                                          |  |
| SNR                                                     | 94 dBA                                                                           |  |
| Crosstalk                                               | >70dB (@1kHz)                                                                    |  |
| CMRR                                                    | >70 (from 20Hz to 20kHz)                                                         |  |
| ELECTRICAL                                              |                                                                                  |  |
| Power supply                                            | Universal, regulated SMPS with PFC                                               |  |
| AC mains requirement                                    | 100-240 V @ 50-60Hz ( $\pm$ 10%)                                                 |  |
| Power factor correction                                 | > 0,91                                                                           |  |
| AC mains connector                                      | IEC C14 inlet                                                                    |  |
| POWER & HEAT @230VAC                                    |                                                                                  |  |
| 1/4 POWER, @ 4 $\Omega$ (all channels driven)           |                                                                                  |  |
| Power                                                   | 506 W<br>582VA                                                                   |  |
| Current Draw                                            | 2,53 Arms                                                                        |  |
| Thermal Loss                                            | 177,2 kcal/h<br>703,1 BTU/h                                                      |  |

|                                       |                             |
|---------------------------------------|-----------------------------|
| 1/8 POWER, @ 4Ω (all channels driven) |                             |
| Power                                 | 300 W<br>374 VA             |
| Current Draw                          | 1,62 Arms                   |
| Thermal Loss                          | 129,0 kcal/h<br>512,0 BTU/h |
| IDLE (all channels driven)            |                             |
| Power                                 | 110 W<br>250 VA             |
| Current Draw                          | 1,1 Arms                    |
| Thermal Loss                          | 94,6 kcal/h<br>375,4 BTU/h  |
| SLEEP MODE (all channels driven)      |                             |
| Power                                 | 62,7 VA                     |
| Current Draw                          | 0,27 Arms                   |
| Thermal Loss                          | 2,3 kcal/h<br>9,2 BTU/h     |

## POWER &amp; HEAT @120VAC

|                                       |                              |
|---------------------------------------|------------------------------|
| 1/4 POWER, @ 4Ω (all channels driven) |                              |
| Power                                 | 828,5 W<br>844 VA            |
| Current Draw                          | 7,50 Arms                    |
| Thermal Loss                          | 196,5 kcal/h<br>779,8 BTU/h  |
| 1/8 POWER, @ 4Ω (all channels driven) |                              |
| Power                                 | 467,7 W<br>489 VA            |
| Current Draw                          | 4,31 Arms                    |
| Thermal Loss                          | 152,01 kcal/h<br>603,1 BTU/h |
| IDLE (all channels driven)            |                              |
| Power                                 | 99,4 W<br>844 VA             |
| Current Draw                          | 1,02 Arms                    |
| Thermal Loss                          | 85,5 kcal/h<br>339,3 BTU/h   |
| SLEEP MODE (all channels driven)      |                              |
| Power                                 | 1,5 W<br>23,9 VA             |
| Current Draw                          | 0,20 Arms                    |
| Thermal Loss                          | 1,3 kcal/h<br>5,01 BTU/h     |

## TECHNOLOGIES

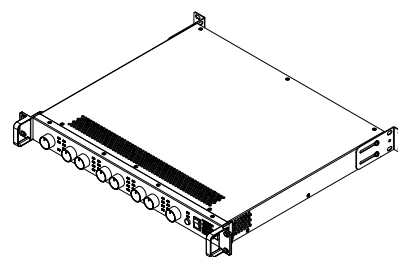
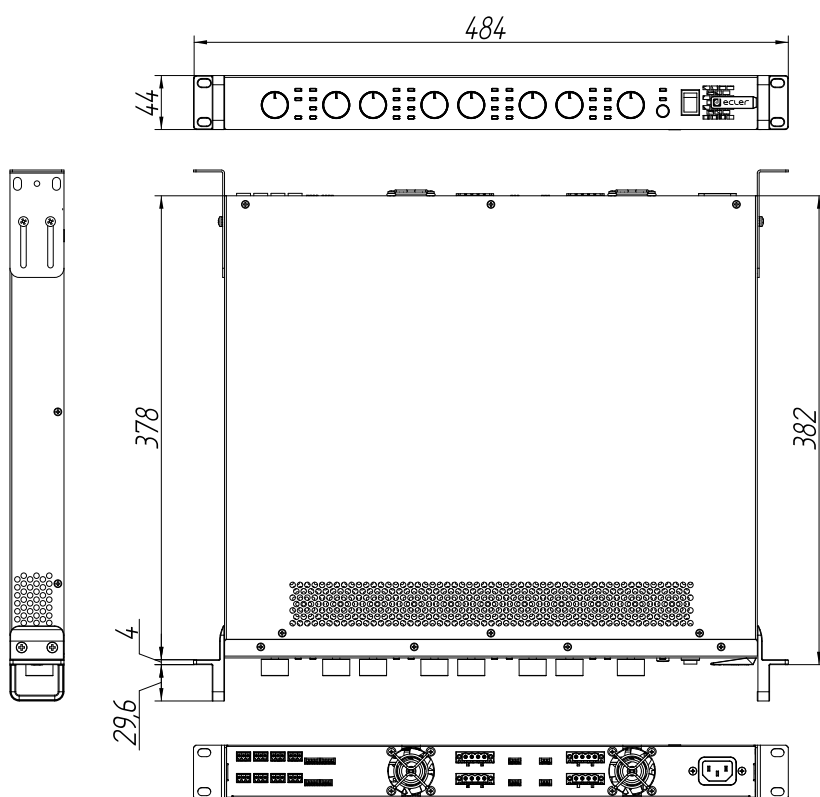
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|--------------------------|----------------------------------|
| Amplification technology | Class D                          |
| Energy saving            | Auto standby function selectable |
| Efficiency               | 59%                              |
| Cooling                  | 2 fans                           |
| Maximum fan noise        | 57 dBA                           |

|               |                             |                                                                                                                                                                                                                |
|---------------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PROTECTIONS   |                             |                                                                                                                                                                                                                |
|               | AC protection               | Yes                                                                                                                                                                                                            |
|               | DC protection               | Yes                                                                                                                                                                                                            |
|               | HF protection               | Yes                                                                                                                                                                                                            |
|               | Short-circuit protection    | Yes                                                                                                                                                                                                            |
|               | Clip limiter                | Yes                                                                                                                                                                                                            |
|               | Thermal protection          | Yes                                                                                                                                                                                                            |
| LOCAL CONTROL |                             |                                                                                                                                                                                                                |
|               | Attenuators                 | Front panel knobs per channel<br>VOL (default)/BYPASS option                                                                                                                                                   |
|               | Output mode settings        | Back panel Dipswitch by pairs of channels<br>BRIDGE/2Ω/4Ω/8Ω/70V/100V                                                                                                                                          |
|               | RUN/SLEEP mode              | Auto standby function<br>Front panel button                                                                                                                                                                    |
|               | Power ON/OFF                | Front panel switch                                                                                                                                                                                             |
| SETTINGS      |                             |                                                                                                                                                                                                                |
|               | Attenuators                 | Front panel knobs per channel                                                                                                                                                                                  |
|               | Output settings             | 2Ω/4Ω/8Ω/70V/100V/Bridge Mode output selection by pair of channels                                                                                                                                             |
|               | Auto standby function       | Front panel button                                                                                                                                                                                             |
|               | Auto standby threshold      | -40dB                                                                                                                                                                                                          |
|               | Auto standby time           | 90 seconds                                                                                                                                                                                                     |
|               | Power ON/OFF                | Front panel switch                                                                                                                                                                                             |
| MONITORING    |                             |                                                                                                                                                                                                                |
|               | Signal Present              | SIGNAL LED (Green) per channel                                                                                                                                                                                 |
|               | Clipping                    | CLIP LED (Red) per channel                                                                                                                                                                                     |
|               | Protect                     | TH/PROT LED (Red) per channel                                                                                                                                                                                  |
|               | Standby                     | AUTO STANDBY ON/OFF LED (Green) per unit                                                                                                                                                                       |
|               | Standby / Mute              | STANDBY (Orange) per channel                                                                                                                                                                                   |
|               | Limit                       | TH/PROT LED (Red)                                                                                                                                                                                              |
|               | Thermal                     | TH/PROT LED (Red) per channel                                                                                                                                                                                  |
|               | On                          | ON LED (Green) per unit                                                                                                                                                                                        |
|               | Link                        | LINK (White)                                                                                                                                                                                                   |
| PHYSICAL      |                             |                                                                                                                                                                                                                |
|               | Operating temperature       | -20° to 40° C<br>-4° to 104° F                                                                                                                                                                                 |
|               | Operating humidity          | 10-90% RH, non-condensing                                                                                                                                                                                      |
|               | Storage temperature         | -40° to 70° C<br>-40° to 158° F                                                                                                                                                                                |
|               | Storage humidity            | 10-95% RH, non-condensing                                                                                                                                                                                      |
|               | Installation options        | Rack 19" installation & desktop                                                                                                                                                                                |
|               | Included accessories        | 1x EU & IEC power cords, UK,US & CN plug adapters, 4x Desktop feet, 1x Rack 19" installation hardware, 6x Euroblock connectors (4x 3-pin blue for inputs and 2x 4-pin green for outputs), 4x Euroblock jumper. |
|               | Dimensions (WxHxD)          | 484 x 44 x 411.6 mm / 19 x 1.73 x 16.20 in.                                                                                                                                                                    |
|               | Weight                      | 7.5 kg / 16.53 lb                                                                                                                                                                                              |
|               | Shipping dimensions (WxHxD) | 590 x 80 x 590 mm / 23.23 x 3.15 x 23.23 in.                                                                                                                                                                   |
|               | Shipping weight             | 11.15 kg / 24.58 lb                                                                                                                                                                                            |

## MECHANICAL DIAGRAM



Ecler AURA-8BI50 Mechanical Diagram



All the measurements are in mm

6I-1230-0100

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All product characteristics are subject to variation due to production tolerances.

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