AURA-8L150

COMMERCIAL AMPLIFIERS

Multichannel LoZ Amplifier

SONORA PROFESSIONAL SERVICES INTÉGRATION AUDIOVISUELLE

PRODUCT OVERVIEW

AURA-8L150 is a multichannel, 8x150 W RMS @ 4 Ω, high efficiency amplifier (class D). AURA Series are built with the highest robustness for long lasting performances with special power supply circuitry designed for optimized electrical consumption and are 100% silent featuring convection cooling system. AURA Series also features the possibility of linking channels to the first input by selecting it on the rear panel, adjustable Auto Standby level, overload and thermal protection, PFC and anti-clipping system.

KEY FEATURES

- 8 analogue audio inputs and 8 x150 WRMS @ 4 Ω powered audio outputs.
- Euroblock input and output connectors.
- Link to input 1 available.
- Volume control knobs on front panel, that can be blocked via switches accessible from the bottom cover.
- High efficiency (Class D).
- Auto Standby function.
- Convection cooling (fanless, 100% silent).
- Thermal protection.
- Overload protection.
- Anti-clip system.

APPLICATIONS

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

TECHNICAL SPECIFICATIONS

AURA-8L150

INPUTS	
Number of Inputs	8
Analogue input connection type	3-pin Euroblock, balanced, pitch 3,5 mm
Input configuration	Input link to CH1 selector per input
AMPLIFIED OUTPUTS	
Number of amplified outputs	8
Amplified output connection type	2-pin Euroblock. Pitch: 5 mm
OUTPUT POWER All channels driven @ 1%THD	
Max output power @ 8Ω	75W
Max output power @ 4Ω	150W
SIGNAL	
Voltage gain	27,8 dB
Input sensitivity	0 dBV 2,21 dBu 1 Vrms
Input impedance	>500kΩ (balanced)
Max input level	+12dBV 14,21 dBu
Frequency response	15Hz-30kHz (-3dB, 1W @ 4Ω)
THD + Noise	< 0,01 % (from 1W to full power output @ 4Ω)
SNR	100 dBA (from 20Hz - 20kHz)
Crosstalk	>80dB (@ 1kHz)
CMRR	> 55 Typ (from 20Hz-20kHz)
Damping factor	>150 (DF @ 8 Ω, 20 Hz - 400 Hz)
ELECTRICAL	
Power supply	Universal, regulated SMPS with PFC
AC mains requirement	100-240 V @ 50-60Hz (±10%)
Power factor correction	> 0,92 (Output Power > 1/4 Max Output Power)
AC mains connector	IEC C14 inlet (10Amax, Power cord 10Amax)
POWER & HEAT @230VAC	
1/4 POWER, @ 4Ω (all channels driven)	
Power	391,8 W | 424,9 VA
Current Draw	1,853 Arms
Thermal Loss	79,29 kcal/h | 314,68 BTU/h
1/8 POWER, @ 4Ω (all channels driven)	
Power	217,7 W | 246,3 VA
Current Draw	1,073 Arms
Thermal Loss	58,08 kcal/h | 230,51 BTU/h

IDLE (all channels driven)

Power	34,6 W | 66,9 VA
Current Draw	0,291 Arms
Thermal Loss	29,76 kcal/h | 118,09 BTU/h

SLEEP MODE (all channels driven)

Power	24,0 W | 54,5 VA
Current Draw	0,237 Arms
Thermal Loss	20,64 kcal/h | 81,91 BTU/h

POWER & HEAT @120VAC

1/4 POWER, @ 4Ω (all channels driven)

Power	400,8 W | 408,5 VA
Current Draw	3,592 Arms
Thermal Loss	86,96 kcal/h | 345,12 BTU/h

1/8 POWER, @ 4Ω (all channels driven)

Power	221,9 W | 227,6 VA
Current Draw	1,992 Arms
Thermal Loss	61,70 kcal/h | 244,85 BTU/h

IDLE (all channels driven)

Power	34,7 W | 41,47 VA
Current Draw	0,361 Arms
Thermal Loss	29,84 kcal/h | 118,43 BTU/h

SLEEP MODE (all channels driven)

Power	24,36 W | 31,9 VA
Current Draw	0,278 Arms
Thermal Loss	20,95 kcal/h | 83,14 BTU/h

TECHNOLOGIES

Amplification technology	Class D
Energy saving	Auto Standby function selectable (Auto Standby by pairs of channels)
Efficiency	76% (1/4 POWER, @ 4Ω, 230VAC)
Cooling	Convection (fanless)

PROTECTIONS

DC protection	Yes
HF protection	Yes
Short-circuit protection	Yes
Clip limiter	Yes
Thermal protection	Yes

LOCAL CONTROL

Attenuators	Front panel knobs per channel VOL (default)/BYPASS option) (VOL/BYPASS selectable by a switch at the bottom)

RUN/SLEEP mode	Auto Standby function Front panel button (Auto Standby ON/OFF button per unit. -50dB (default) or -40dB, internally selectable. Auto stand-by time: 60 seconds)
Power ON/OFF	Front panel switch (green LED indicator)

MONITORING

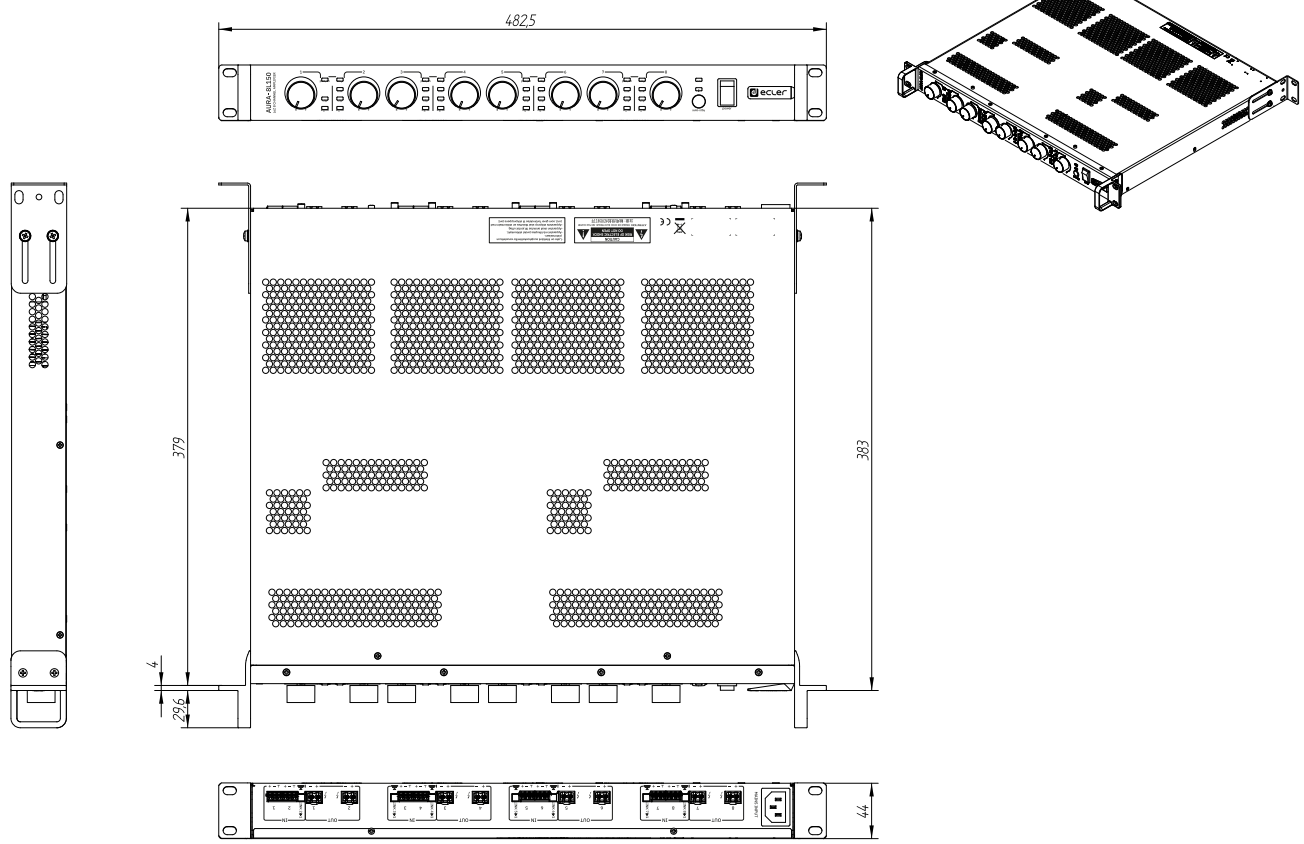
Signal Present	SIGNAL LED (Green) per channel (trigger @- 40 dBV)
Clipping	CLIP LED (Red) per channel
Protect	PROT LED (Red) by pairs of channels (Combined PROT/TH LED)
Standby	AUTO STANDBY ON/OFF LED (Green) per unit
Standby / Mute	AUTO STANDBY (Orange) by pairs of channels
Thermal	TH LED (Orange) by pairs of channels (combined PROT/TH LED)
On	ON LED (Green) per unit
Link	LINK LED (White) per channel

PHYSICAL

Operating temperature	-10º to 50º C 14º to 122º F
Operating humidity	5 - 85% RH, non-condensing
Storage temperature	-10º to 50º C 14º to 122º F
Storage humidity	5 - 85% RH, non-condensing
Included accessories	Rear rack support
Dimensions (WxHxD)	482.6x44x414 mm. / 19x1.73x16.29 inches
Weight	6.3 kg / 13.9 lb
Shipping dimensions (WxHxD)	590x75x585mm. / 23.23x2.95x23.03 inches
Shipping weight	8.35kg / 18.41lb

MECHANICAL DIAGRAM

Ecler AURA-8L150 Mechanical Diagram



All the measurements are in mm

61-1133-0100

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A & E SPECIFICATIONS

The Amplifier shall be a constant voltage 100 V type, containing eight independent controllable amplifier channels with a 150W maximum output power per channel. The construction shall be transformer-less, using Class-D Amplifier technology and powered by a universal, regulated SMPS with PFC power supply. Each channel shall have integrated circuitry to protect against short-circuits or mismatched loads and over-heating. Additionally, the load shall be protected against DC faults and a clip limiter shall automatically reduce the input gain at onset of distortion.

The front panel shall contain an AC power switch, a power on indicator LED, an Auto Standby button and Auto Standby LED. Each channel should have a level knob, a signal LED, a clip LED and a link LED, moreover protect and thermal LEDs for each pair of channels. The front panel knobs should be able to be disabled by means of the VOL Bypass switches -accessible with a thin screwdriver- from the bottom face of the chassis. Auto Standby threshold should be selectable, for every 2 adjacent channels, by means of an internal jumper, between -40db / -50 dB values. The possibility to link the channels to input 1 shall be available through a button on the rear panel.

All connections shall be made on the rear panel of the unit. The output connections must be fitted with terminal block connectors. The amplifier shall operate 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 1UR steel constructed 19'' housing. Depth from mounting surface to rear supports shall be 414 mm and the weight shall not exceed 6.3 Kg.

The amplifier shall be the ECLER AURA-8L150.

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