

AURA Series

COMMERCIAL AMPLIFIERS

Two Channels / Multichannel / LoZ / HiZ Amplifiers



USER MANUAL



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1. PRECAUTIONS

1.1 Important Notice



WARNING: SHOCK HAZARD - DO NOT OPEN

AVIS: RISQUE DE CHOC ÉLECTRIQUE - NE PAS OUVRIR



The flashing light with an arrowhead symbol inside an equilateral triangle on it is intended to alert the user of the presence of non-insulated “dangerous voltage” within the enclosure, which might be of sufficient magnitude to pose a risk of electric shock to users.



The exclamation mark within an equilateral triangle is intended to alert the user of the requirement for important operating and maintenance (servicing), for which instructions may be found in the literature accompanying the appliance.

WARNING (If applicable): The terminals marked with symbol “” may be of sufficient magnitude to pose a risk of electric shock. The external wiring connected to terminals requires installation by a technician, or the use of ready-made leads or cords.

WARNING: To prevent fire or shock hazard, do not expose this equipment to rain or humidity.

WARNING: A device with Class I manufacturing ought to be connected to a mains socket outlet with a protective earthing connection.



WARNING: Ecler products have a long lifetime of more than 10 years. This product must never be discarded as unsorted urban waste, but must be taken to the nearest electrical and electronic waste treatment centre.



This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.



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1.2 Key Safety Directions

1. Read the following directions.
2. Keep the following directions.
3. Heed all warnings.
4. Follow all directions.
5. Do not use this device in proximity to water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other devices (including amplifiers) that may release heat.
9. Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades, being one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, contact a qualified electrician for a replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched, particularly at the plugs, convenience receptacles, and at the point of exit from the device.
11. Only use attachments/accessories specified by the manufacturer.
12. Unplug the device during lightening sorts or when unused for long periods of time.
13. Refer all servicing to qualified personnel. Servicing is required when the device has been damaged in any way, such as power supply cord or plug damage, liquid spillage or objects onto the device, the device has been exposed to rain or humidity, does not operate normally, or has been dropped.
14. Disconnecting from mains: When switching off the POWER switch, all the functions and light indicators of the unit will be stopped, but fully disconnecting the device from mains is done by unplugging the power cable from the mains input socket, therefore, it should always remain easily accessible
15. Equipment is connected to a socket-outlet with an earthing connection by means of a power cord.
16. The marking information is located at the top/rear of the unit.
17. The device shall not be exposed to dripping or splashing liquids, and no liquid-filled objects, such as a filled up glass, shall be placed on top of the device.

1.3 Cleaning Directions



Clean the unit with a soft, dry clean cloth or slightly wet with water and neutral liquid soap only, then dry it with a clean cloth. Be careful that water never gets into the unit through any hole. Never use alcohol, benzine, solvents or abrasive substances to clean this unit.

NEEC AUDIO BARCELONA, S.L. accepts no liability for any damage that may be caused to people, animal, or objects due to failure to comply with the warnings above.



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2. WARRANTY & ENVIRONMENT

Thank you for choosing Ecler AURA Series!

We greatly value your trust.

It is **VERY IMPORTANT** to carefully read this manual and to fully understand its contents before any connecting takes place in order to make the best use of this equipment, as well as to get the best performance from it.

To ensure optimal operation of this device, **we strongly recommend that its maintenance be carried out by our authorised Technical Services.**

All ECLER products are covered by warranty, please refer to www.ecler.com or the warranty card included with this product for the period of validity and conditions.



Ecler is truly committed with the environment and planet sustainability, energy saving and CO₂ emission reduction. Recycling materials and using non-contaminant components are also top priorities in our green crusade.

Ecler has deeply evaluated and analyzed the environmental impacts of all the processes involved in the production of this product, including packaging, and has alleviated, reduced and/or compensated for them.

3. PACKAGE CONTENTS

- 1 unit of one of the AURA Series model.
- EU & multiplug mains cords.
- Euroblock Connectors (inputs /outputs)
- Desktop feet, rack 19" installation hardware.
- First Steps Guide.
- Warranty card.



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4. DESCRIPTION & FEATURES

AURA Series is a family of analogue amplifiers, with different power levels: **AURA-2L150** two channels, 2x150 W RMS @ 4 Ω , **AURA-4L150** is a multichannel, 4x150 W RMS @ 4 Ω , **AURA-8L150** is a multichannel, 8x150 W RMS @ 4 Ω , **AURA-2H150** two channels, 2x150 W RMS @ 70/100V, and **AURA-4H150** is a multichannel, 4x150 W RMS @ 70/100V.

AURA Series are built with the highest robustness for long lasting performances, with special power supply circuitry designed for optimized electrical consumption. All AURA 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.

4.1 Main Features

- 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.



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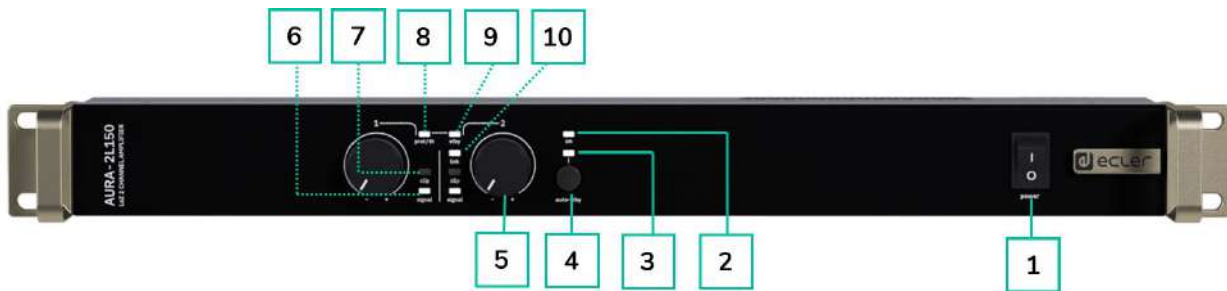
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5. PANEL FUNCTIONS

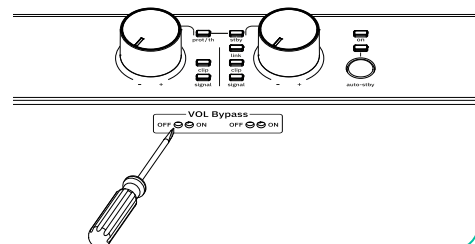
5.1 Front Panel



1. **Power Switch:** the equipment is switched on by default just switching to ON the front panel power switch.
2. **ON LED:** lights up in green colour when the unit is powered ON.
3. **Auto Standby indicator LED:** lights up in green colour when the Auto Standby function is enabled.
4. **Auto Standby button:** enables / disables the Auto Standby function (low power consumption mode, managed by pairs of channels).
5. **Control knobs (1-8 upon model):** each front panel LEVEL knob allows to control the volume of the correspondent amplified audio outputs.



The **front panel knobs can be disabled** by means of the **VOL Bypass switches** -accessible with a thin screwdriver- from the bottom face of the chassis.



6. **Signal indicator LED (per channel):** indicates signal presence in the amplification output. These indicators light up in green colour when the input signal exceeds -40dBV threshold.
7. **Clip indicator LED (per channel):** lights up in red colour when the input signal exceeds -0,9dBV.
8. **Protect /Thermal. indicator LED (per channel):** lights up in red colour when the general protection circuit of the channel is activated, or in orange colour when the temperature limiter is in operation, with fast blinking when temperature reaches 83 °C (181.4 °F) or steady when the temperature reaches 125 °C (257 °F) and in this case the equipment goes into protection mode.



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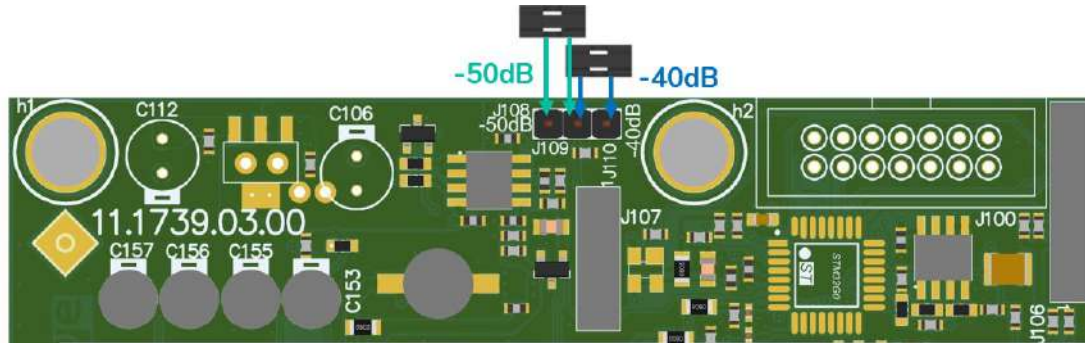
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9. **Standby indicator LED (per pair of channels):** lights up in orange colour when a couple of adjacent channels enter into Standby (low power consumption) mode.

Auto Standby threshold can be selected, for every 2 adjacent channels, by means of an internal jumper, between -40db / -50 dB values.



10. **Link indicator LED (per channel):** lights up in white colour when the link function is activated = the channel gets its input audio signal from IN1 in the rear panel (same signal that CH1 gets), instead of getting it from INX, where X is the channel count index.up when the maximum power is reached.

5.2 Rear Panel



1. Mains socket base
2. Amplified outputs, OUT 1-2, or 1-4, or 1-8 (upon model), 2-pin Euroblock or 3 pin Euroblock (Low Impedance or High Impedance, respectively, upon models)
3. Link button for INX to IN1 (X=2 to 8, upon models).
4. Analogue inputs, IN1-2, or 1-4, or 1-8 (upon model), 3-pin Euroblock, balanced.

6. INSTALL & CONNECT

The **equipment must be correctly grounded** (ground resistance, $R_g = 30 \text{ Ohm}$ or less). The environment must be dry and dustless. Do not expose the unit to rain or water splashes, and do not place liquid containers or incandescent objects like candles on top of the unit.

Do not obstruct the ventilation grilles with any kind of material. If the device requires any intervention and/or connection/disconnection, it must be first powered off.

Do not handle the speaker output terminals with your device turned on, there are high voltages. The output cabling should be connected by a qualified technician. Otherwise only use pre-made flexible cables. There are no user serviceable parts inside the amplifier.

! Non-compliance with the instructions or neglecting warnings may cause malfunction or even damage the unit.

- **Avoid turning on the device without the speakers connected to its outputs** and without having previously set the volume/gain controls to minimum level.
- **Always use shielded cables** to make connections between devices.
- **In an amplifier, avoid placing the speaker output cables close to other signal cables** (micro, line...). This may cause the system to oscillate, damaging the amplifier and speakers.

6.1 Location, Assembly and Ventilation

AURA series devices have a **19" rack format (1RU)**.

It is very important not to enclose the amplifier or expose it to extreme temperatures as it generates heat.

It is also necessary to encourage the airflow through the ventilation holes of the chassis.

! If multiple products are installed in the same rack or in a cabinet with closed doors, it is highly recommended to install fans in their upper and lower ends for a forced airflow from the bottom up. This upward air flow will help to dissipate the heat generated inside.

! Please ensure that there is always, at least, one free rack unit between an AURA amplifier and other equipment installed above and below it in the rack cabinet. This is essential for the fanless convection ventilation to work properly and thus ensure correct operation of the amplifier throughout its lifetime.

! Regular maintenance of dust removal is highly recommended as dust can impede airflow and hinder heat dissipation.



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6.2 Mains Connection

AURA operates on alternating voltages from 100-240 V @ 50-60Hz ($\pm 10\%$). This device is equipped with an oversized power supply capable of adapting **without any type of adjustment to the mains voltage of any country in the world.**

On the **front panel**, there is an **on/off switch** for the unit.



ON Led on the frontal panel lights up when unit is switched on.



To enable/disable the Auto Standby mode (per pairs of channels) just push the Auto Standby button on the front panel. The Auto Standby LED will light in green accordingly.



Do not allow the mains cable to run parallel to the shielded cables carrying the audio signal, as this may cause humming.



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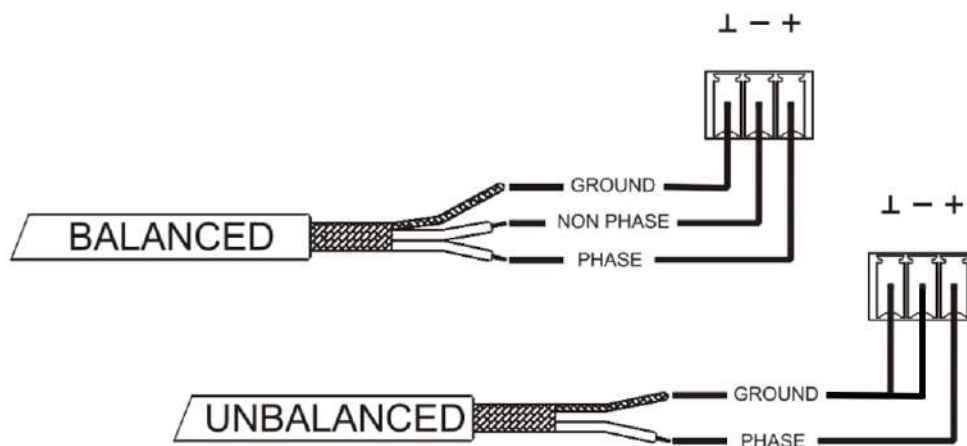
6.3 Analogue Input Connections

AURA rear panel provides analogue, balanced, line level signal inputs. The selection of hardware inputs and it's routing to the unit's amplified channels are performed from its physical connections and LINK button.



Signal input connectors are 3 position screw terminal block. The wiring is:

Live or direct signal	>	Pin	+
Cold or inverted signal	>	Pin	-
Ground	>	Pin	⊥



For **unbalanced connection** short-circuit pin ⊥ to pin - as reported on the picture.



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6.4 Amplified Output Connections

The rear panel is fitted with **two position screw terminal block** for each amplified output (low impedance models) or with **three position screw terminal block** for each amplified output (high impedance models, 70/100V outputs).



! Always respect the relative polarity for outputs (+ and - on each output connector), wiring and speakers.

6.4.1 Out Configurations

Select the appropriate operation mode to do not damage the loudspeakers. **Never connect loads below 4 ohms when working in low impedance mode.**

! Make sure to match the impedance of the total load connected to the loudspeakers, when working in low impedance for a correct performance.

! The connection cable that joins the amplifiers outputs and the loudspeakers must be of good quality, sufficient section and as short as possible. This is most important when the distances to cover are long ones i.e., up to 10 meters it is recommended to use a section not inferior to 2.5mm² and for superior distances 4mm².

7. START-UP & OPERATION

7.1 Start-up

When the **front panel Power switch** is **ON**, the amplifier is powered, and **it will automatically switch on**.



When the **ON LED** of the front panel is lit in green, the device is operational.



In a complete audio installation, **it is important to start up the equipment in the following sequence:**

1. sound sources
2. mixer
3. equalizers
4. active filters
5. processors
6. power amplifiers.

To turn them off the sequence should follow an inverse pattern.



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8. TECHNICAL DATA

8.1 Technical Specifications

8.1.1 AURA-2L150

AURA-2L150

INPUTS		
Number of Inputs	2	
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	2	
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	103,8 W 112,9 VA	
Current Draw	0,492 Arms	
Thermal Loss	24,95 kcal/h 99 BTU/h	
1/8 POWER, @ 4Ω (all channels driven)		
Power	58,97 W 67,4 VA	
Current Draw	0,293 Arms	
Thermal Loss	18,55 kcal/h 73,62 BTU/h	



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IDLE (all channels driven)	
Power	11,6 W 24,4 VA
Current Draw	0,106 Arms
Thermal Loss	9,98 kcal/h 35,59 BTU/h
SLEEP MODE (all channels driven)	
Power	8,9 W 21,97 VA
Current Draw	0,096 Arms
Thermal Loss	7,65 kcal/h 30,38 BTU/h
POWER & HEAT @120VAC	
1/4 POWER, @ 4Ω (all channels driven)	
Power	106,7 W 108 VA
Current Draw	0,988 Arms
Thermal Loss	27,66 kcal/h 109,76 BTU/h
1/8 POWER, @ 4Ω (all channels driven)	
Power	60,11 W 61,95 VA
Current Draw	0,536 Arms
Thermal Loss	19,44 kcal/h 77,17 BTU/h
IDLE (all channels driven)	
Power	11,7 W 13,66 VA
Current Draw	0,119 Arms
Thermal Loss	10,06 kcal/h 39,93 BTU/h
SLEEP MODE (all channels driven)	
Power	9,1 W 11,36 VA
Current Draw	0,099 Arms
Thermal Loss	7,83 kcal/h 31,06 BTU/h
TECHNOLOGIES	
Amplification technology	Class D
Energy saving	Auto Standby function selectable (Auto Standby by pairs of channels)
Efficiency	72% (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 Standby 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	-10° to 50° C 14° to 122° F
	Operating humidity	5 - 85% RH, non-condensing
	Storage temperature	-10° to 50° C 14° to 122° F
	Storage humidity	5 - 85% RH, non-condensing
	Dimensions (WxHxD)	482.6x44x275 mm. / 19x1.73x10.83 inches
	Weight	3.0 kg / 6.6 lb
	Shipping dimensions (WxHxD)	590x75x400mm. / 23.23x2.95x15.75 inches
	Shipping weight	4.55 kg / 10.03lb

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8.1.2 AURA-4L150

AURA-4L150

INPUTS		
Number of Inputs	4	
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	4	
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	199,15 W 215,7 VA	
Current Draw	0,939 Arms	
Thermal Loss	41,07 kcal/h 162,97 BTU/h	
1/8 POWER, @ 4Ω (all channels driven)		
Power	108,4 W 122,6 VA	
Current Draw	0,534 Arms	
Thermal Loss	29.41 kcal/h 116.7 BTU/h	
IDLE (all channels driven)		
Power	16,75 W 33,26 VA	
Current Draw	0,145 Arms	
Thermal Loss	14.41 kcal/h 57.17 BTU/h	

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SLEEP MODE (all channels driven)	
Power	11.2 W 26.6 VA
Current Draw	0,116 Arms
Thermal Loss	9.61 kcal/h 38.16 BTU/h
POWER & HEAT @120VAC	
1/4 POWER, @ 4Ω (all channels driven)	
Power	203.4 W 207.5 VA
Current Draw	1.815 Arms
Thermal Loss	44.75 kcal/h 177.61 BTU/h
1/8 POWER, @ 4Ω (all channels driven)	
Power	110.5 W 113.25 VA
Current Draw	0,988 Arms
Thermal Loss	31.25 kcal/h 124.03 BTU/h
IDLE (all channels driven)	
Power	17,03 W 20,47 VA
Current Draw	0,178 Arms
Thermal Loss	14,65 kcal/h 58,12 BTU/h
SLEEP MODE (all channels driven)	
Power	11,65 W 15,5 VA
Current Draw	0,135 Arms
Thermal Loss	10,02 kcal/h 39,76 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)

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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	-10° to 50° C 14° to 122° F
Operating humidity	5 - 85% RH, non-condensing
Storage temperature	-10° to 50° C 14° to 122° F
Storage humidity	5 - 85% RH, non-condensing
Dimensions (WxHxD)	482.6x44x275 mm. / 19x1.73x10.83 inches
Weight	3.7 kg / 8.16 lb
Shipping dimensions (WxHxD)	590x75x400mm. / 23.23x2.95x15.75 inches
Shipping weight	5.25 kg /11.57 lb

8.1.3 AURA-8L150

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	

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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	-10° to 50° C 14° to 122° F
Operating humidity	5 - 85% RH, non-condensing
Storage temperature	-10° to 50° C 14° to 122° 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



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8.1.4 AURA-2H150

AURA-2H150

INPUTS		
Number of Inputs	2	
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	2	
Amplified output connection type	3-pin Euroblock. Pitch: 5 mm	
OUTPUT POWER All channels driven @ 1%THD		
Max output power @ 100V	150W	
Max output power @ 70V	150W	
SIGNAL		
Voltage gain	40 dB	
Input sensitivity	0 dBV	
	2,21 dBu	
	1 Vrms	
Input impedance	>500k Ω (balanced)	
Max input level	+12dBV	
	14,21 dBu	
Frequency response	50Hz-20kHz (-3dB, 1W @ 68 Ω)	
THD + Noise	< 0,03 % (from 1W to full power output @ 68 Ω)	
SNR	100 dBA (from 20Hz - 20kHz)	
Crosstalk	>70dB (@ 1kHz)	
CMRR	> 55 Typ (from 20Hz-20kHz)	
ELECTRICAL		
Power supply	Universal, regulated SMPS with PFC	
AC mains requirement	100-240 V @ 50-60Hz ($\pm$ 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, @ 68 Ω (all channels driven)		
Power	119,25 W 128,6 VA	
Current Draw	0,560 Arms	
Thermal Loss	37,63 kcal/h 149,32 BTU/h	
1/8 POWER, @ 68 Ω (all channels driven)		
Power	65,68 W 74,17 VA	
Current Draw	0,323 Arms	
Thermal Loss	24,63 kcal/h 97,75 BTU/h	
IDLE (all channels driven)		
Power	12,06 W 24,85 VA	
Current Draw	0,108 Arms	
Thermal Loss	10,37 kcal/h 41,16 BTU/h	

SLEEP MODE (all channels driven)	
Power	9,63 W 22,75 VA
Current Draw	0,099 Arms
Thermal Loss	8,28 kcal/h 32,87 BTU/h
POWER & HEAT @120VAC	
1/4 POWER, @ 68Ω (all channels driven)	
Power	123,6 W 125,5 VA
Current Draw	1,095 Arms
Thermal Loss	41,40 kcal/h 164,3 BTU/h
1/8 POWER, @ 68Ω (all channels driven)	
Power	68,93 W 70,3 VA
Current Draw	0,612 Arms
Thermal Loss	26,72 kcal/h 106,4 BTU/h
IDLE (all channels driven)	
Power	12,03 W 13,99 VA
Current Draw	0,122 Arms
Thermal Loss	10,35 kcal/h 41,06 BTU/h
SLEEP MODE (all channels driven)	
Power	9,51 W 11,74 VA
Current Draw	0,102 Arms
Thermal Loss	8,18 kcal/h 32,46 BTU/h
TECHNOLOGIES	
Amplification technology	Class D
Energy saving	Auto Standby function selectable (Auto Standby by pairs of channels)
Efficiency	63% (1/4 POWER, @ 68Ω, 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)

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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	-10° to 50° C 14° to 122° F
Operating humidity	5 - 85% RH, non-condensing
Storage temperature	-10° to 50° C 14° to 122° F
Storage humidity	5 - 85% RH, non-condensing
Dimensions (WxHxD)	482.6x44x275 mm. / 19x1.73x10.83 inches
Weight	5.8 kg / 12,8 lb
Shipping dimensions (WxHxD)	590x75x400mm. / 23.23x2.95x15.75 inches
Shipping weight	7.35kg / 16.20 lb

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8.1.5 AURA-4H150

AURA-4H150

INPUTS		
Number of Inputs	4	
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	4	
Amplified output connection type	3-pin Euroblock. Pitch: 5 mm	
OUTPUT POWER All channels driven @ 1%THD		
Max output power @ 100V	150W	
Max output power @ 70V	150W	
SIGNAL		
Voltage gain	40 dB	
Input sensitivity	0 dBV	
	2,21 dBu	
	1 Vrms	
Input impedance	>500k Ω (balanced)	
Max input level	+12dBV	
	14,21 dBu	
Frequency response	50Hz-20kHz (-3dB, 1W @ 68 Ω)	
THD + Noise	< 0,03 % (from 1W to full power output @ 68 Ω)	
SNR	100 dBA (from 20Hz - 20kHz)	
Crosstalk	>70dB (@ 1kHz)	
CMRR	> 55 Typ (from 20Hz-20kHz)	
ELECTRICAL		
Power supply	Universal, regulated SMPS with PFC	
AC mains requirement	100-240 V @ 50-60Hz ($\pm$ 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, @ 68 Ω (all channels driven)		
Power	228,1 W 245,9 VA	
Current Draw	1,07 Arms	
Thermal Loss	68,37 kcal/h 271,33 BTU/h	
1/8 POWER, @ 68 Ω (all channels driven)		
Power	124,6 W 139,3 VA	
Current Draw	0,606 Arms	
Thermal Loss	43 kcal/h 170,65 BTU/h	
IDLE (all channels driven)		
Power	17,11 W 33,68 VA	
Current Draw	0,146 Arms	
Thermal Loss	14,71 kcal/h 58,40 BTU/h	

SLEEP MODE (all channels driven)	
Power	11,8 W 27,5 VA
Current Draw	0,120 Arms
Thermal Loss	10,15 kcal/h 40,27 BTU/h
POWER & HEAT @120VAC	
1/4 POWER, @ 68Ω (all channels driven)	
Power	233,3 W 238 VA
Current Draw	2,084 Arms
Thermal Loss	72,06 kcal/h 288,13 BTU/h
1/8 POWER, @ 68Ω (all channels driven)	
Power	127,34 W 130,84 VA
Current Draw	1,142 Arms
Thermal Loss	5,32 kcal/h 179,87 BTU/h
IDLE (all channels driven)	
Power	17,3 W 20,78 VA
Current Draw	0,181 Arms
Thermal Loss	14,88 kcal/h 59,04 BTU/h
SLEEP MODE (all channels driven)	
Power	12,17 W 16,02 VA
Current Draw	0,139 Arms
Thermal Loss	10,47 kcal/h 41,54 BTU/h
TECHNOLOGIES	
Amplification technology	Class D
Energy saving	Auto Standby function selectable (Auto Standby by pairs of channels)
Efficiency	65% (1/4 POWER, @ 68Ω, 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)



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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	-10° to 50° C 14° to 122° F
Operating humidity	5 - 85% RH, non-condensing
Storage temperature	-10° to 50° C 14° to 122° F (performance may be reduced above 40 °C/104°F)
Storage humidity	5 - 85% RH, non-condensing
Included accessories	Rear rack support
Dimensions (WxHxD)	482.6x44x414 mm. / 19x1.73x16.29 inches
Weight	10.2 kg / 22.5 lb
Shipping dimensions (WxHxD)	590x75x585mm. / 23.23x2.95x23.03 inches
Shipping weight	12.40 kg / 27.34lb



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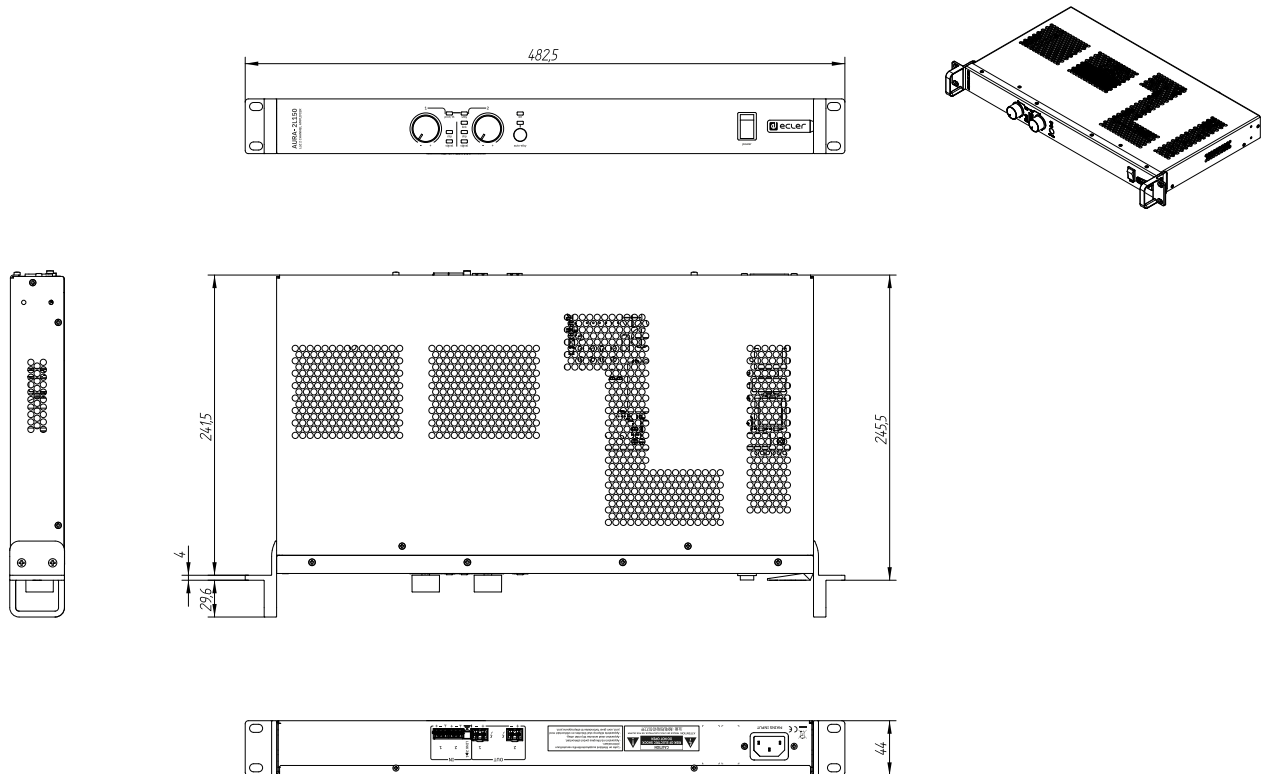
8.2 Mechanical Diagrams

8.2.1 AURA-2L150

All measurements are in mm.



Ecler AURA-2L150 Mechanical Diagram



6I-1130-0100

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All the measurements are in mm



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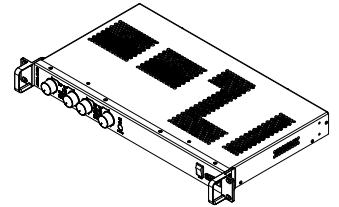
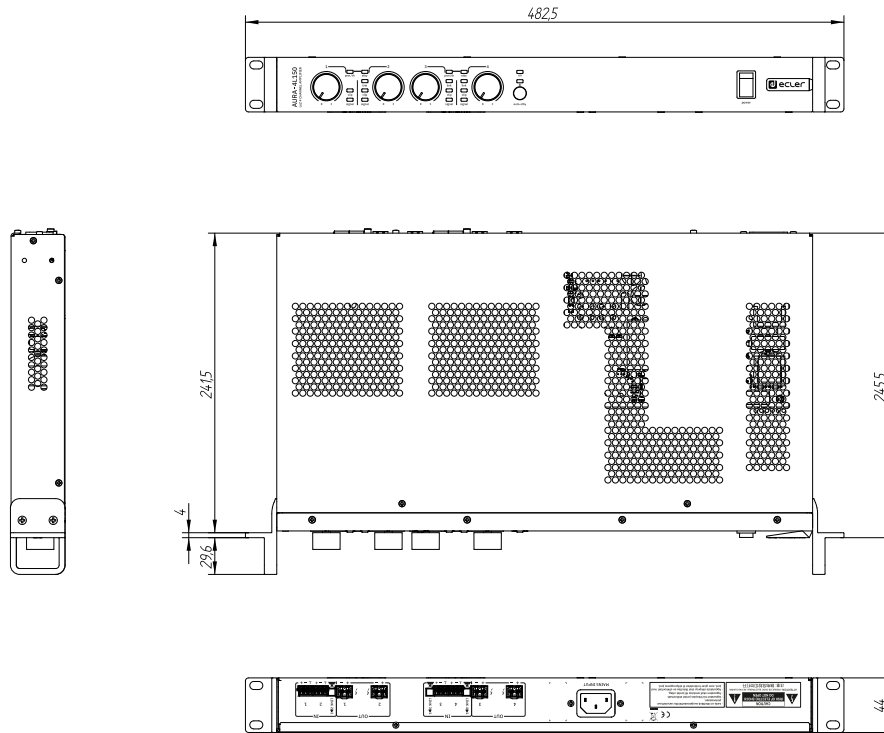
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8.2.2 AURA-4LI50

All measurements are in mm.



Ecler AURA-4LI50 Mechanical Diagram



All the measurements are in mm

6I-1132-0100

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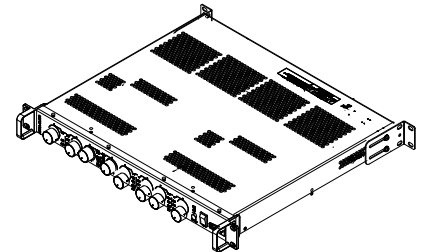
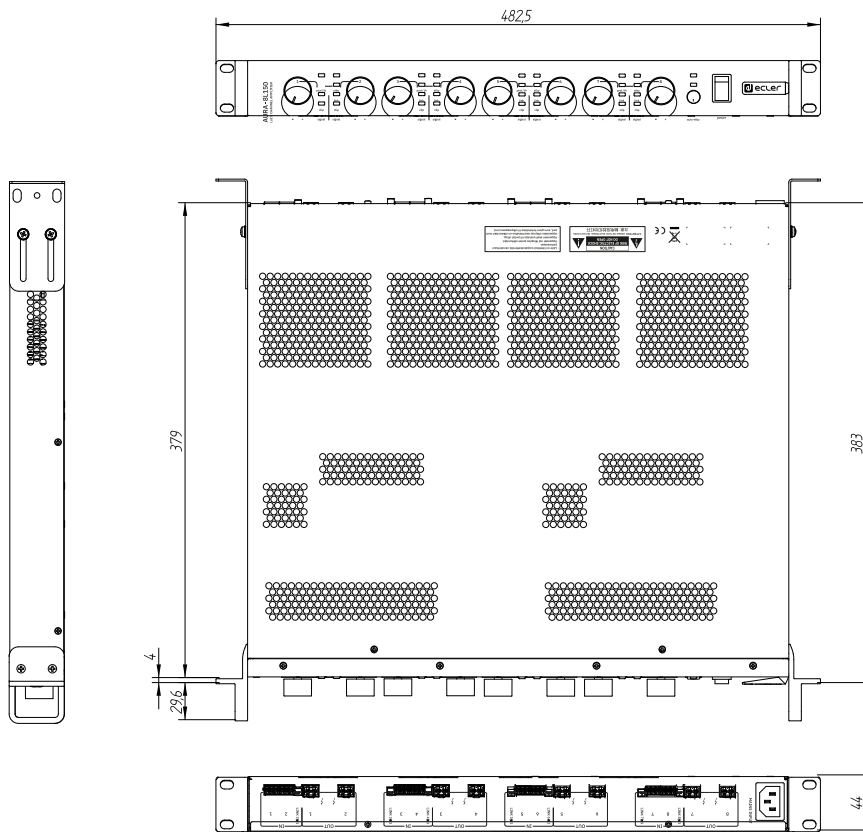
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8.2.3 AURA-8L150

All measurements are in mm.



Ecler AURA-8L150 Mechanical Diagram



All the measurements are in mm

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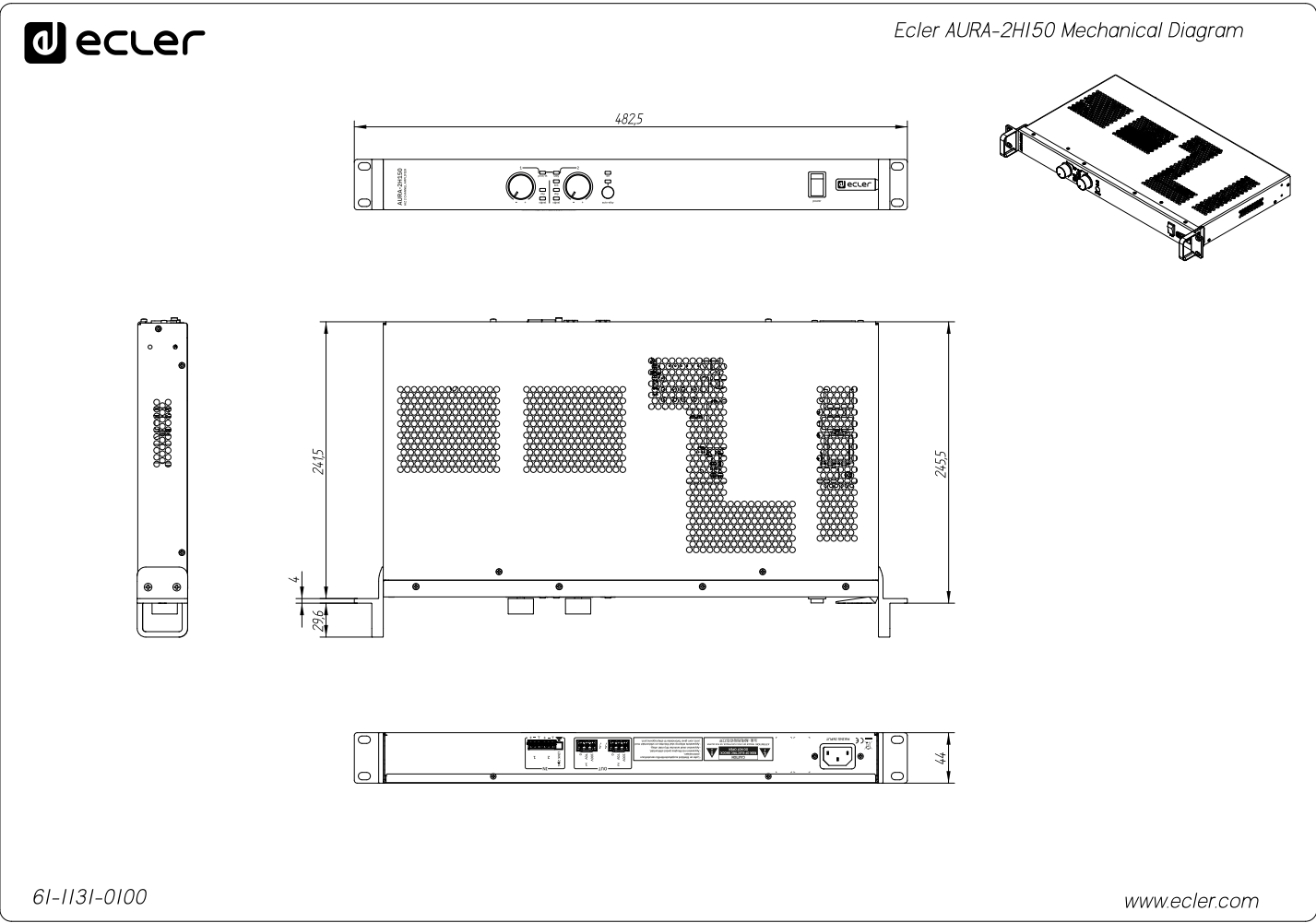
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8.2.4 AURA-2HI150

All measurements are in mm.



All the measurements are in mm

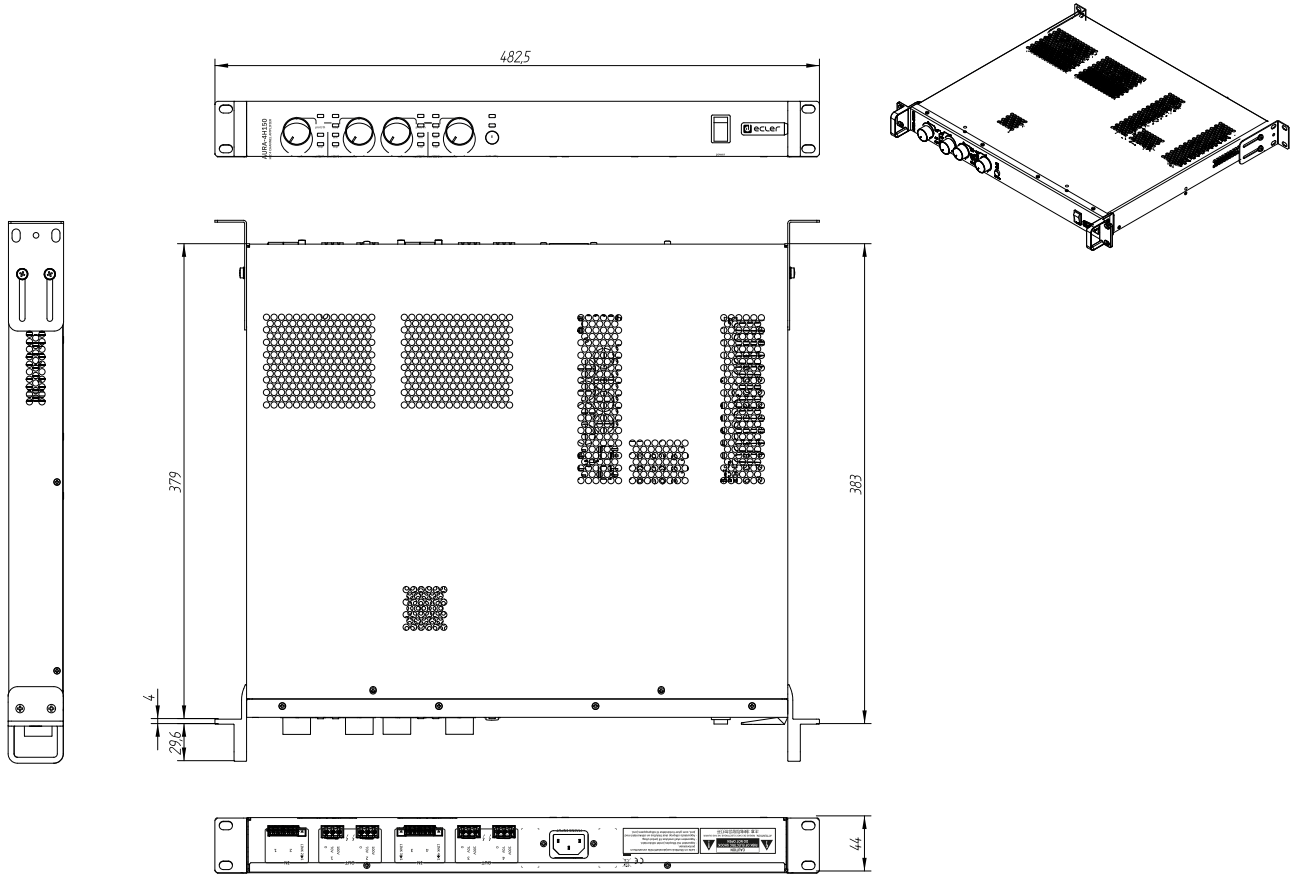

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8.2.5 AURA-4HI150

All measurements are in mm.



Ecler AURA-4HI150 Mechanical Diagram



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All the measurements are in mm.



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