# AURA-2B600

## COMMERCIAL AMPLIFIERS

*Two channels LoZ & HiZ Amplifier*

## PRODUCT OVERVIEW

**AURA-2B600** is two channels, 2x600 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

- 2 analogue audio inputs and 2 x600 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

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

## TECHNICAL SPECIFICATIONS

### AURA-2B600

| | |
|---|---|
| **CHANNELS** | |
| Number of Outputs channels | 2 |
| Output connection type | 2-pin Euroblock. Pitch: 7,62 mm |
| Number of Inputs channels | 2 |
| 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 @ 8Ω | 300W |
| Max output power @ 4Ω | 600W |
| Max output power @ 2Ω | 800W |
| Max output power @ 4Ω bridge mode | 1300W |
| Max output power @ 8Ω bridge mode | 900W |
| Max output power @ 100V | 600W |
| Max output power @ 70V | 600W |
| **OUTPUT POWER** Single channel driven @1kHz @CF9dB @ 1%THD | |
| Max output power @ 8Ω | 300W |
| Max output power @ 4Ω | 600W |
| Max output power @ 2Ω | 900W |
| Max output power @ 4Ω bridge mode | 1300W |
| Max output power @ 8Ω bridge mode | 900W |
| Max output power @ 100V | 600W |
| Max output power @ 70V | 600W |
| **SIGNAL** | |
| Voltage gain | 34 dBΩ |
| Input sensitivity | 0 dBV<br>2,21 dBu<br>1 Vrms |
| Input impedance | 20kΩ balanced |
| Max input level | +18dBV<br>20,21 dBu |
| Frequency response | 15Hz - 30kHz |
| THD + Noise | <0,01% |
| SNR | 100dBA |
| Crosstalk | >70dB |
| CMRR | > 55 Typ |
| Damping Factor | >150 |
| **ELECTRICAL** | |
| Power supply | Universal, regulated SMPS with PFC |
| AC mains requirement | 100-240 V @ 50-60Hz (±10%) |
| Power factor correction | > 0,92 |
| AC mains connector | IEC C14 inlet |

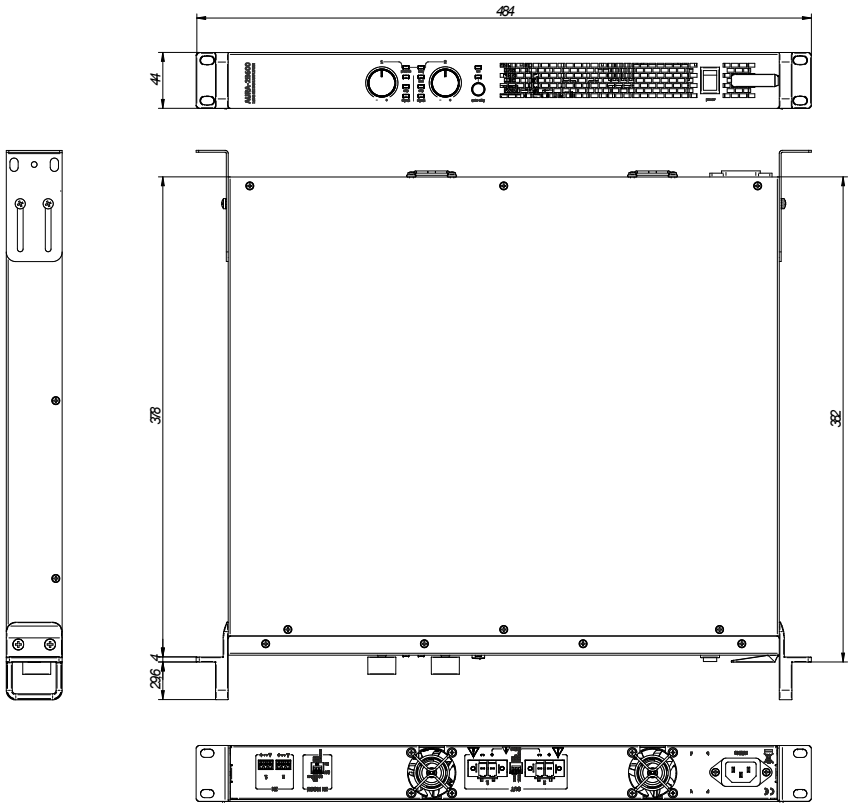
| POWER & HEAT @230VAC | |
|---|---|
| 1/4 POWER, @ 4Ω (all channels driven) | |
| Power | 380 W |
| | 430 VA |
| Current Draw | 1,86 Arms |
| Thermal Loss | 68,8 kcal/h |
| | 273 BTU/h |
| 1/8 POWER, @ 4Ω (all channels driven) | |
| Power | 226,2 W |
| | 278 VA |
| Current Draw | 1,20 Arms |
| Thermal Loss | 65,5 kcal/h |
| | 260,1 BTU/h |
| IDLE (all channels driven) | |
| Power | 62,4 W |
| | 129 VA |
| Current Draw | 0,56 Arms |
| Thermal Loss | 53,7 kcal/h |
| | 212,9 BTU/h |
| SLEEP MODE (all channels driven) | |
| Power | 2,2 W |
| | 82 VA |
| Current Draw | 0,35 Arms |
| Thermal Loss | 1,8 kcal/h |
| | 7,3 BTU/h |

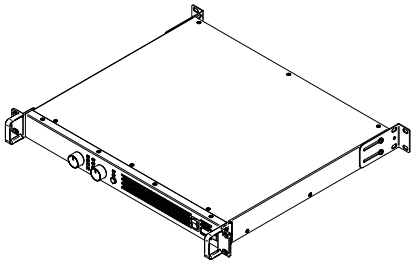
| POWER & HEAT @120VAC | |
|---|---|
| 1/4 POWER, @ 4Ω (all channels driven) | |
| Power | 380,6 W |
| | 393 VA |
| Current Draw | 3,45 Arms |
| Thermal Loss | 69,3 kcal/h |
| | 275,1 BTU/h |
| 1/8 POWER, @ 4Ω (all channels driven) | |
| Power | 226,7 W |
| | 239 VA |
| Current Draw | 2,09 Arms |
| Thermal Loss | 66,01 kcal/h |
| | 261,8 BTU/h |
| IDLE (all channels driven) | |
| Power | 62,8 W |
| | 81 VA |
| Current Draw | 0,70 Arms |
| Thermal Loss | 54,01 kcal/h |
| | 214,3 BTU/h |
| SLEEP MODE (all channels driven) | |
| Power | 1,3 W |
| | 24 VA |
| Current Draw | 0,20 Arms |
| Thermal Loss | 1,1 kcal/h |
| | 4,4 BTU/h |

| | |
|---|---|
| **TECHNOLOGIES** | |
| Amplification technology | Class D |
| Energy saving | Auto standby function selectable |
| Efficiency | 79% |
| Cooling | 2 fans |
| Maximum fan noise | 58 dBA |
| **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 |
| Output mode settings | Back panel Dipswitch by pairs of channels |
| | DUAL/BRIDGE |
| | LoZ/70V/100V |
| RUN/SLEEP mode | Auto standby function |
| | Front panel button |
| Power ON/OFF | Front panel switch |
| **MONITORING** | |
| Signal Present | SIGNAL LED (Green) per channel |
| Clipping | CLIP LED (Red) per channel |
| Protect | PROT LED (Red) by pairs of channels |
| 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 |
| On | ON LED (Green) per unit |
| Link | LINK LED (White) per channel |
| **PHYSICAL** | |
| Operating temperature | Min:-10º ; 14º C |
| | Max: 50º ; 122º F |
| Operating humidity | 5 - 85% RH, non-condensing |
| Storage temperature | Min:-10º ; 14º C |
| | Max: 50º ; 122º F |
| Storage humidity | 5 - 85% RH, non-condensing |
| Dimensions (WxHxD) | 484 x 44 x 378 mm / 19.06 x 1.73 x 14.88 in. |
| Weight | 6.7 kg / 14.77 lb |
| Shipping dimensions (WxHxD) | 590 x 80 x 590 mm / 23.23 x 3.15 x 23.23 in. |
| Shipping weight | 9.45 kg / 20.83 lb |

## MECHANICAL DIAGRAM

*Ecler AURA-2B600 Mechanical Diagram*



All the measurments are in mm

*61-1162-0100*

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## A & E SPECIFICATIONS

The Amplifier shall be able to work both in Low Impedance(@2/4/8Ω) and High Impedance(70/100V), Selectable through a switch in the rear panel, containing two independent controllable amplifier channels with a 600W @ 4 Ω maximum output power per channel and supporting dual or bridge mode (@4/8Ω) 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 switch on the rear panel. Auto Standby threshold value is -50 dB. The possibility to link the channels to input 1 shall be available through a switch 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 378mm and the weight shall not exceed 6.7 Kg.

The amplifier shall be the ECLER AURA-2B600.



Motors, 166-168 - 08038 Barcelona - Spain | (+34) 932238403 | information@ecler.com | www.ecler.com