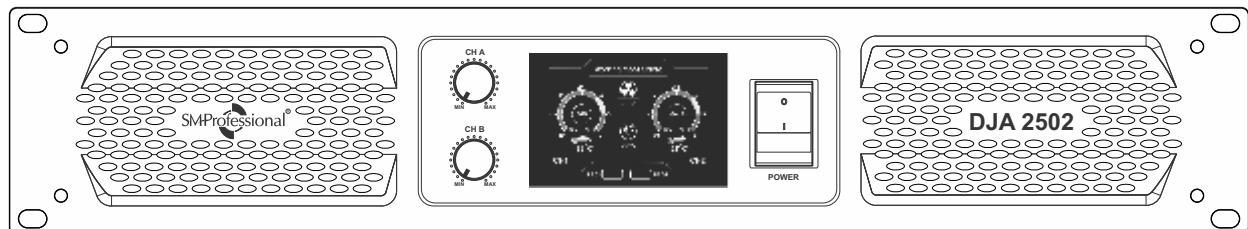


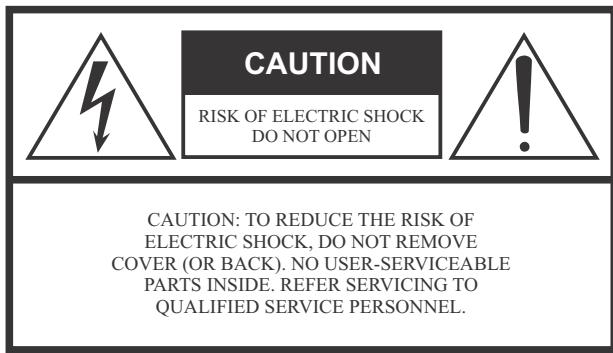


# DJA 2502

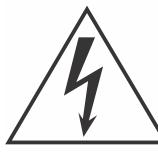
## Professional Stereo Power Amplifiers



- 1.....Warranty Information
- 2.....Introduction
- 3.....Features at a Glance
- 4.....Input Output Connections
- 5.....Front & Rear Panel Description
- 6.....Setup
- 7.....Technical Specifications



### Explanation of Graphical Symbols

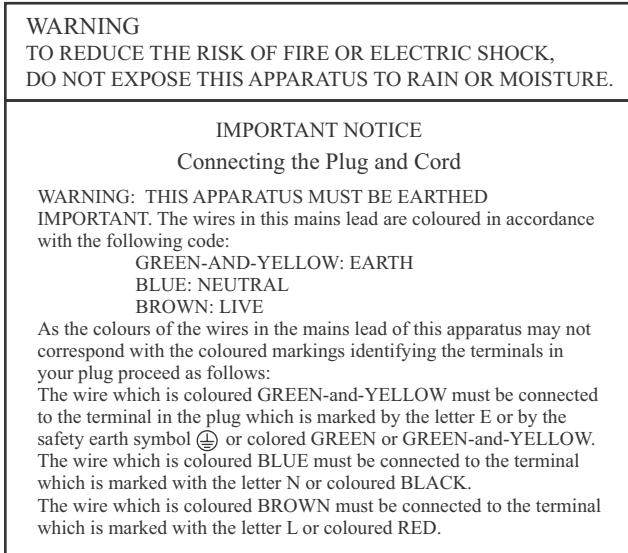


The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

## IMPORTANT SAFETY INSTRUCTIONS



- 1 Read these instructions.
- 2 Keep these instructions.
- 3 Heed all warnings.
- 4 Follow all instructions.
- 5 Do not use this apparatus near water.
- 6 Clean only with 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 apparatus (including amplifiers) that produce heat.
- 9 Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 10 Only use attachments/accessories specified by the manufacturer.
- 11 Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



- 12 Unplug this apparatus during lightning storms or when unused for long periods of time.
- 13 Refer all servicing to qualified service personnel. Servicing in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

### Tips for Safe Operation

The 3 core AC mains cable should be terminated with this AC mains plug by connecting brown/red wire on live pin (L), black wire on neutral pin (N) and yellow/green wire on earth pin (E).

The amplifier must be connected to an AC earthed mains outlet that can deliver the maximum power required. The use of extension cables or adaptors should be avoided as this can jeopardize correct delivery to the amplifier.

All connections must only be carried out or changed with the amplifier switched OFF. Ensure proper impedance matching while in use for BRIDGE mode applications. For continuous safe operation, resultant impedance of the speakers 8 ohm/4 ohm is recommended.

For 2 ohm/4 ohm applications, it is recommended to use speakon connectors only. Use of cable 40/36 or thicker is recommended to prevent power losses.

The level of input signal should not exceed the specified input sensitivities. Excessive input signal level results in over driving of input circuit which leads to saturated / distorted output at speaker terminals.

Do not operate the amplifier with continuously blinking CLIP LED. The respective volume control of the channels must be adjusted so that the output level does not clip and distort. Do not obstruct the front or back of the amplifier for necessary intake of air.

# Precautions

## — For safe operation —

### ⚠ WARNING

#### Installation

- Connect this unit's power cord only to an AC outlet of the type stated in this Owner's Manual or as marked on the unit. Failure to do so is a fire and electrical shock hazard.
- Do not allow water to enter this unit or allow the unit to become wet. Fire or electrical shock may result.
- Do not place a container with liquid or small metal objects on top of this unit. Liquid or metal objects inside this unit are a fire and electrical shock hazard.
- Do not place heavy objects, including this unit, on top of the power cord. A damaged power cord is a fire and electrical shock hazard. In particular, be careful not to place heavy objects on a power cord covered by a carpet.

#### Operation

- Do not scratch, bend, twist, pull, or heat the power cord. A damaged power cord is a fire and electrical shock hazard.
- Do not remove the unit's cover. You could receive an electrical shock. If you think internal inspection, maintenance, or repair is necessary, contact your dealer.

### ⚠ CAUTION

#### Installation

- Keep this unit away from the following locations:
  - Locations exposed to oil splashes or steam, such as near cooking stoves, humidifiers, etc.
  - Unstable surfaces, such as a wobbly table or slope.
  - Locations exposed to excessive heat, such as inside a car with all the windows closed, or places that receive direct sunlight.
  - Locations subject to excessive humidity or dust accumulation.
- Do not place the power cord close to a heater. It may melt, causing fire or electrical shock.
- Hold the power cord plug when disconnecting it from an AC outlet. Never pull the cord. A damaged power cord is a potential fire and electrical shock hazard.
- Do not touch the power plug with wet hands. Doing so is a potential electrical shock hazard.
- This unit has ventilation holes at the front, rear & top to prevent the internal temperature rising too high. Do not block them. Blocked ventilation holes are a fire hazard.  
In particular, do not
  - place the unit on its side or upside down,
  - place the unit in any poorly-ventilated location such as a bookcase or closet (other than on the dedicated rack),
  - cover the unit with a table cloth or place it on a carpet or bed.
- Allow enough free space around the unit for normal ventilation. This should be: 5 cm at the sides, 10 cm behind, and 10 cm above.
- If the airflow is not adequate, the unit will heat up inside and may cause a fire.

- Do not modify the unit. Doing so is a fire and electrical shock hazard.
- If lightning begins to occur, turn off the power switch of the unit as soon as possible, and unplug the power cable from the electrical outlet.
- If there is a possibility of lightning, do not touch the power cable plug if it is still connected. Doing so may be an electrical shock hazard.

#### In case an abnormality occurs during operation

- If the power cord is damaged (i.e., cut or a bare wire is exposed), ask your dealer for a replacement. Using the unit with a damaged power cord is a fire and electrical shock hazard.
- Should this unit be dropped or the cabinet be damaged, turn the power switch off, remove the power plug from the AC outlet, and contact your dealer. If you continue using the unit without heeding this instruction, fire or electrical shock may result.
- If you notice any abnormality, such as smoke, odor, or noise, or if a foreign object or liquid gets inside the unit, turn it off immediately. Remove the power cord from the AC outlet. Consult your dealer for repair. Using the unit in this condition is a fire and electrical shock hazard.

#### Operation

- To mount several of these units in a standard EIA rack, refer to the rack mounting instructions on page 16.
- To relocate the unit, turn the power switch off, remove the power plug from the AC outlet, and remove all connecting cables. Damaged cables may cause fire or electrical shock.
- Use only thick speaker cables when connecting speakers to amplifier outputs. Use of cables type 40/36 or thicker is recommended for connecting low impedance speakers to avoid power loss in the cables, as heavy current flows through the cables. Using other types of cables is a fire hazard.
- Turn off all musical instruments, audio equipment, and speakers when connecting to this unit. Use the correct connecting cables and connect as specified.
- Always lower the volume control to minimum before turning on the power to this unit. A sudden blast of sound may damage your hearing.
- Do not use this amplifier for any purpose other than driving loudspeakers.
- If you know you will not use this unit for a long period of time, such as when going on vacation, remove the power plug from the AC outlet. Leaving it connected is a potential fire hazard.
- When operating amplifier on a generator, make sure it is switched "OFF" till generator voltages has stabilized & then only switch "ON" amplifier.
- Be sure of proper impedance of 2/4/8 ohm when used for STEREO/PARALLEL configuration & 4/8 ohm recommended when used in BRIDGE mode.

## 1. Warranty Information

### Unpacking

As part of our quality control system, every SMProfessional product is thoroughly inspected before leaving the factory to ensure a flawless performance. After unpacking, please inspect the unit for any physical damages. In the event that a damage has occurred, kindly notify your SMProfessional dealer immediately. We request you to retain the packing/cartons should the product require servicing/maintenance in the future.

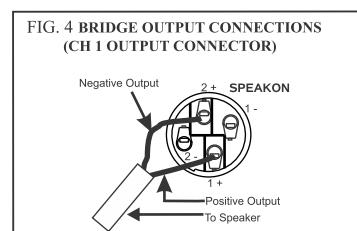
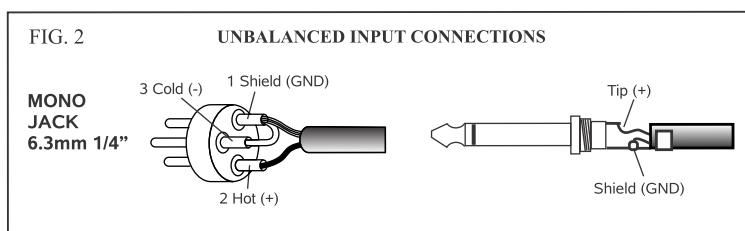
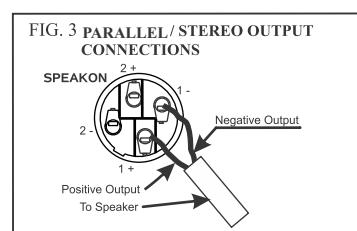
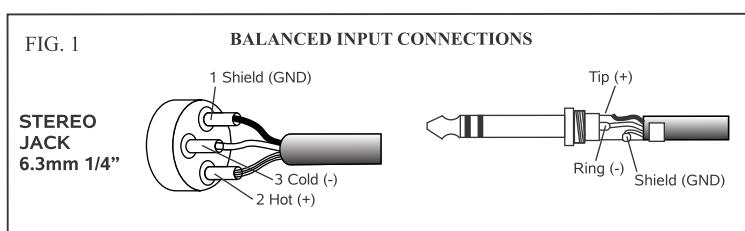
## 2. Introduction

The SMProfessional DJA 2502 is our range of stereo power amplifiers designed to deliver high efficiency, definition, dependability and incredible sonic punch.

## 3. Features at a Glance

- Class H Amplifier Technology:** High-efficiency Class H design provides powerful output with optimized energy use and reduced heat.
- LCD Display Panel:** Smart LCD screen displays real-time system status, including fan speed, temperature, and protection alerts.
- Three-Color Signal Indication:** Intuitive LED indicators in green (signal present), yellow (peak/limit), and red (protection/clipping) for quick monitoring.
- Power Output:** Delivers consistent, high-performance audio for professional applications
- Design:** Rugged, compact design suitable for fixed installations or touring setups.
- Cooling System:** Intelligent fan system with automatic speed control for efficient thermal management.
- Protection Circuitry:** Comprehensive protection against short circuits, overheating, DC faults, and overloading.
- Inputs/Outputs:** Versatile connectivity options including balanced XLR, TRS inputs, and Speakon / binding post outputs.
- Audio Quality:** Clean, low-distortion sound with excellent signal-to-noise ratio.
- Build Quality:** Heavy-duty metal chassis for maximum durability.
- Mounting:** Standard 19-inch rack-mountable form factor.

## 4. Input Output Connections

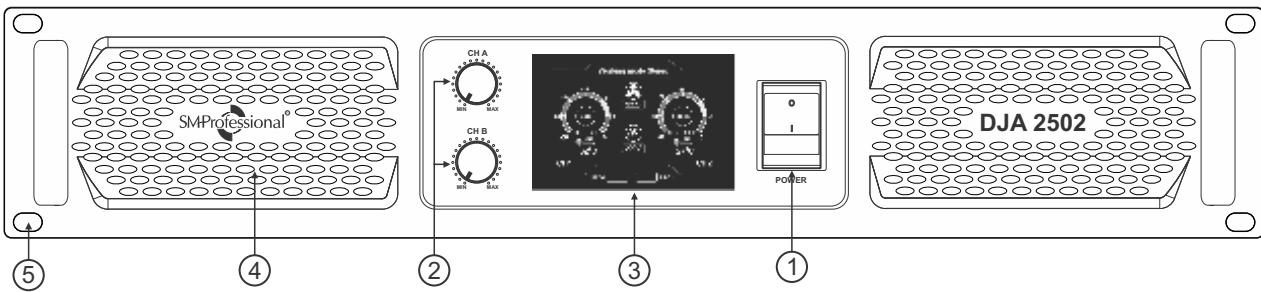


### WARNING:-

If the power plug supplied with this equipment does not suit the power supply socket in your area, please consult the dealer from whom the equipment has been purchased. Please ensure use of correct plug to support appliance earthing.

## 5. Front & Rear Panel Description

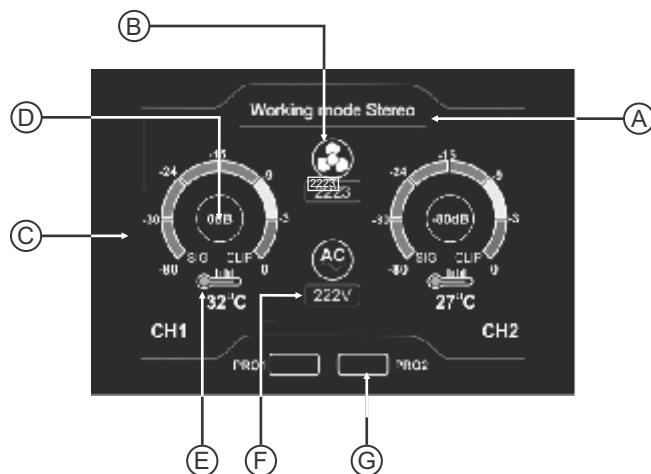
### • DJA 2502 Front Panel



**1. Power Switch:** It switches the amplifier ON or OFF. Kindly reduce the volume to minimum while switching the unit ON or OFF.

**2. Volume Control:** This knob is used to adjust and control the volume and output level of the respective channel.

**3. LCD Display:** LCD display is provide for visual inspections of following operations.



- A) Working Mode: Indicates the amplifier's operation mode, such as stereo mode, mono mode, or bridge mode.
- B) Fan Operation: Indicates whether the fan is ON or OFF, and displays the fan speed in RPM (Revolutions Per Minute).
- C) Signal Indication: Indicates the signal level:
  - 1) Green for normal signal.
  - 2) Yellow for pre-clipping (signal approaching maximum).
  - 3) Red for clipping (signal distortion due to overload).
- D) Volume Control Indication: Indicates the level at which the volume is set, showing how much the signal is opened or amplified.
- E) Temperature Indication: Indicates the heatsink temperature of the amplifier.
- F) Supply Indication: Shows the AC input voltage level supplied to the amplifier.
- G) Protect LED: Indicates the amplifier's protection status. If there is an issue such as a short circuit or thermal overload, the red LED will turn ON.

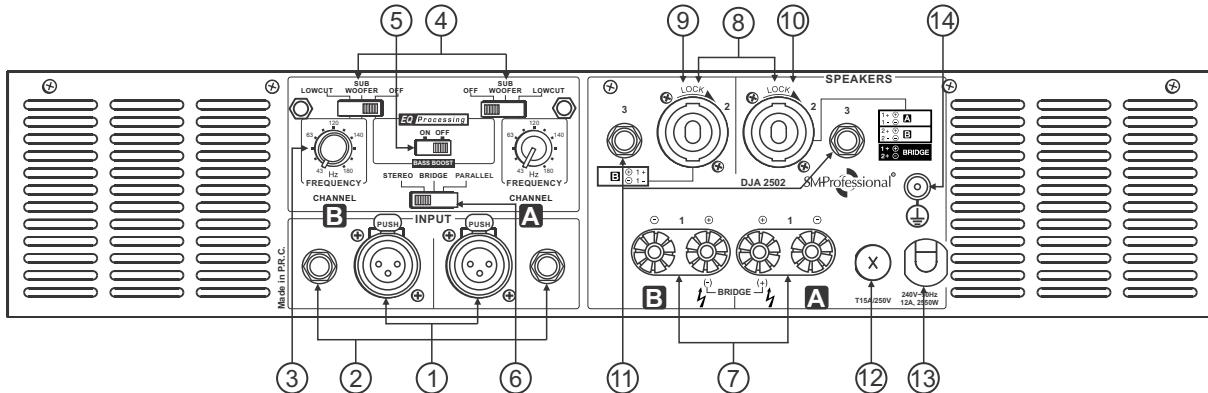
**4. Air Intake Grill:** This intake grill features low-noise high-speeds fans to suck in air and dissipate the heat generated to keep the amplifier running cool.

**Note:** For best results, do not obstruct the grill and clean the air filters whenever necessary.

**5. RMC Holes:** The Rack Mounting holes are provided to fix the amplifier on a rack.

## Rear Panel

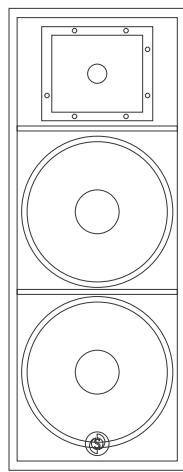
### • DJA 2502 Back Panel



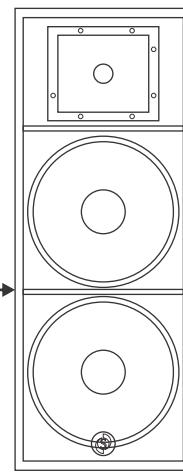
1. Balanced XLR input: This XLR connector takes the signal (balanced/unbalanced) for driving the channel. If the signal is unbalanced, pin 2 can be used for the signal and pin 3 connected to the earth.
2. Balanced 6.3 mm jack input: This stereo jack connector takes the signal (balanced/unbalanced) for driving the channel. If the signal is unbalanced, a mono connector may be used.
3. Frequency adjustment knob: When the EQ is selected between Low Cut & Sub woofer, use this knob to adjust the frequency.
4. Filter Switch: Use this switch to select the filter type. SUB WOOFER.....Uses a low-pass filter. The amplifier outputs the frequencies that are lower than the cut-off set by the FREQUENCY adjustment knob. LOW CUT.....Uses a high-pass filter. You can use this setting to filter out unneeded low or subsonic frequencies.
5. Bass Boost Switch: If you set this switch ON, the amplifier adds low-frequency compensation so as to enhance speaker output. The results (the actual change in the low-frequency balance) will vary according to the speaker type. Note that this switch is effective only if the FILTER switch is set to OFF.
6. Configuration Switch: This 3 way switch configures the amp for the three working modes parallel, stereo and bridge.
7. Output Binding Post: For CH A & CH B use this output for picking up the amplified signals individually for stereo mode, and in combination for bridge mode.
8. Speakon connector for CH A to CH B: Use this connector to pick amplified output of CH A & CH B.
9. CH B speakon connector: Use this connector for CH B output at 1+ & 1-.
10. CH A / Bridge speakon connector: Use this connector for CH A output (1+ & 1-) CH B Output (2+ & 2-) and Bridge output (1+ & 2+)
11. Output-stereo jacks: Use this 6.3mm jack connector for CH A & Ch B Output.
12. Fuse holder socket: The Fuse ratings is 15A, replace with same type & rating.
13. Power cable: Use this cable for supplying power to unit.
14. External earth terminal: For a possible ground connection (e.g. in case of hum problems).

## 6. Set up For DJA 2502

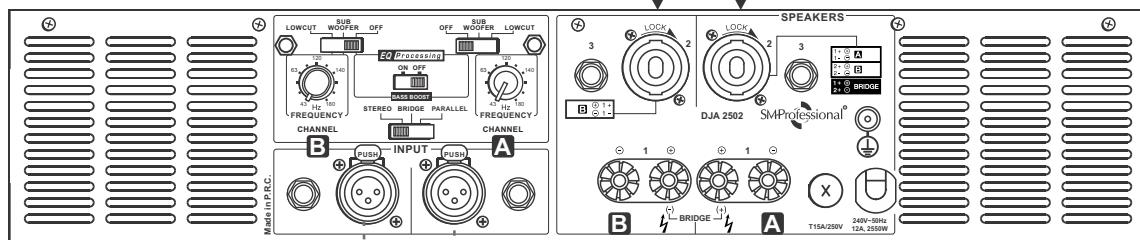
Fire 45



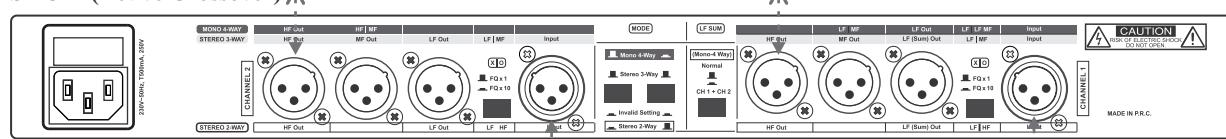
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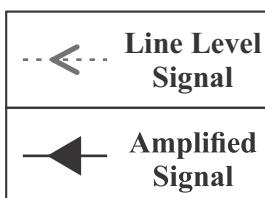
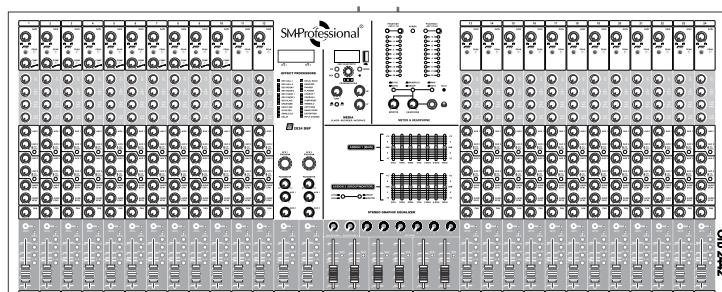
DJA 2502



SX-341 (Active Crossover)



Orb 2422



## 7. Technical Specifications

Model	LOAD	DJA 2502
Stereo RMS Power	2Ω	-----
	4Ω	2 x 900W
	8Ω	2 x 600W
Stereo EIA Power	2Ω	-----
	4Ω	2 x 1500W
	8Ω	2 x 825W
Bridged RMS Power	4Ω	-----
	8Ω	1800W
Bridged EIA Power	4Ω	-----
	8Ω	3000W
Single channel driven RMS Power	2Ω	-----
	4Ω	1100W
	8Ω	700W
Single channel driven EIA Power	2Ω	-----
	4Ω	1800W
	8Ω	900W
Damping factor	>350:1 (8Ω)	
Frequency Response	20Hz-20KHz (-3dB)	
Input Impedance	20KΩ Balanced/10KΩ Unbalanced	
Protection	Temperature, DC, short circuit	
Input Connector (per channel)	XLR, Jack Stereo 6.3mm	
Output Connector (per channel)	Speak-on connector/Binding Posts/6.3mm jack	
Cooling	2 X Variable Speed fans (80MM)	
Power Supply	240V 50Hz, 12A, 2550W	
Dimensions (WxDxH)	482 x 88 x 456mm (2U)	
Net Weight in Kg*	20.0 kg	

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