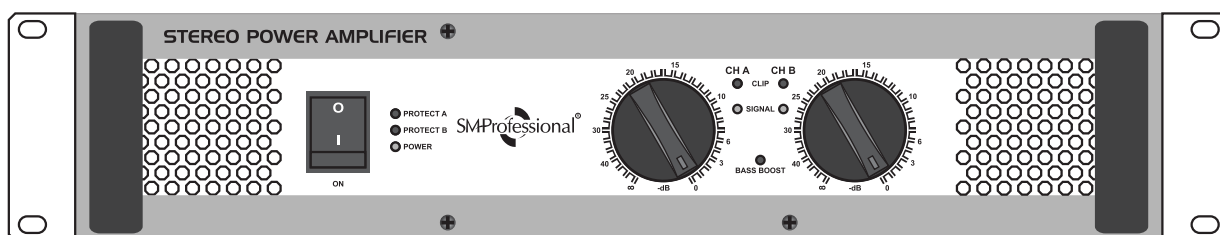


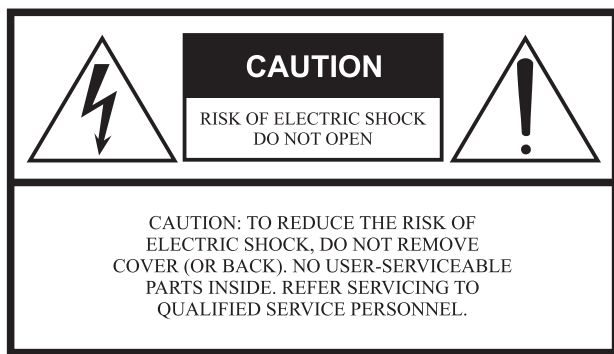


DJA Series

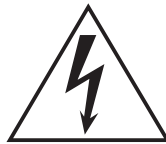
Professional Stereo Power Amplifiers



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

WARNING
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK,
DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.

IMPORTANT NOTICE Connecting the Plug and Cord

WARNING: THIS APPARATUS MUST BE EARTHED
IMPORTANT. The wires in this mains lead are coloured in accordance with the following code:

GREEN-AND-YELLOW: EARTH
BLUE: NEUTRAL
BROWN: LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

The wire which is coloured GREEN-and-YELLOW must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol  or colored GREEN or GREEN-and-YELLOW. The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK. The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.

- 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 delivered 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 continous 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 result 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.

- 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.

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.

- 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.

Operation

- 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

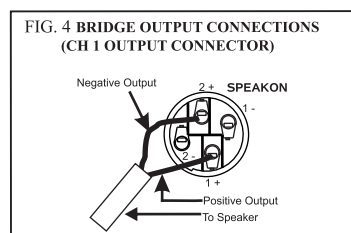
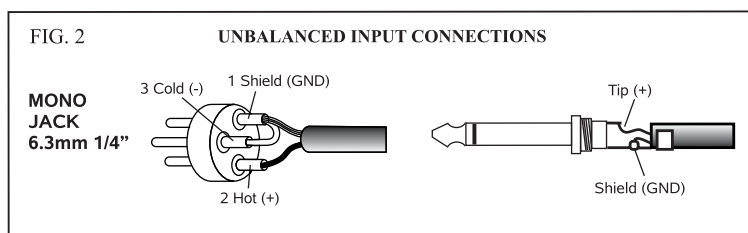
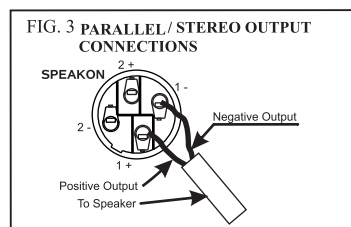
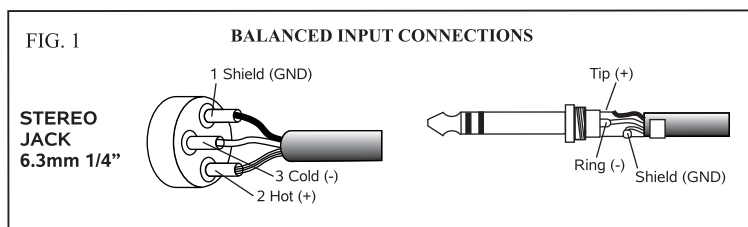
The SMProfessional DJA series amplifiers are our range of stereo power amplifiers designed to deliver high efficiency, definition, dependability and incredible sonic punch.

3. Features at a Glance

- **Class H Amplifier Technology:** High-efficiency Class H design provides powerful output with optimized energy use and reduced heat.
- **EQ Processing:** Low Cut, Subwoofer on rear Panel.
- **Level Control & LED indicators:** Power, Signal, Clip, Bass Boost & Protect on front panel.
- **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:** 19" 2U Rack Mountable design (Only DJA 2500).
19" 3U Rack Mountable design.
- **Available Models:**

- DJA 2500	- DJA 3200	- DJA 4000	- DJA 5000
- DJA 6000	- DJA 7000	- DJA 12000	

4. Input Output Connections

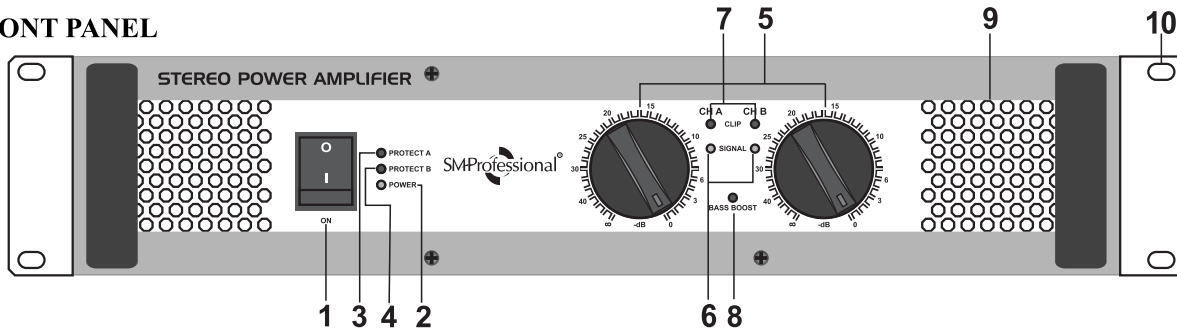


WARNING:-

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.

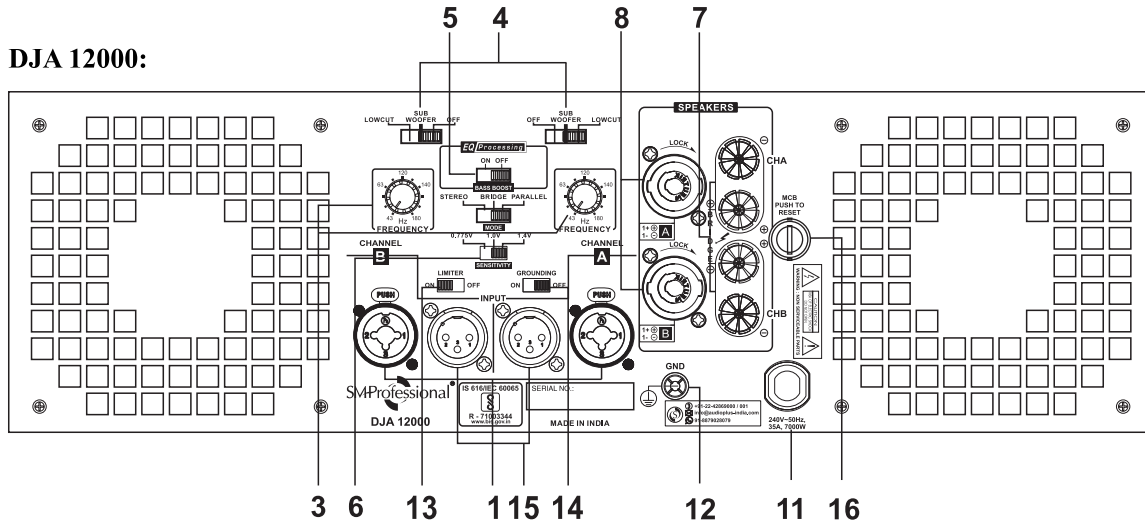
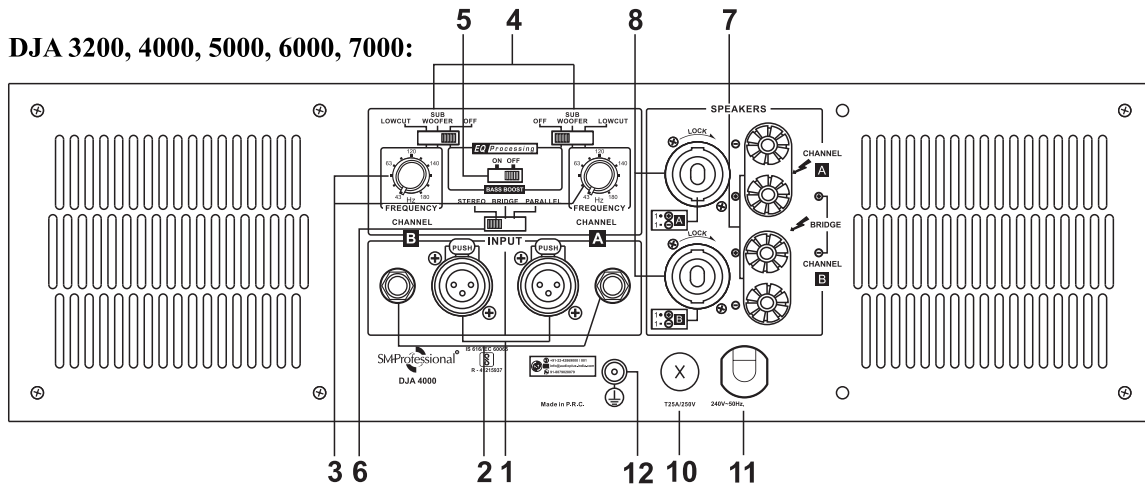
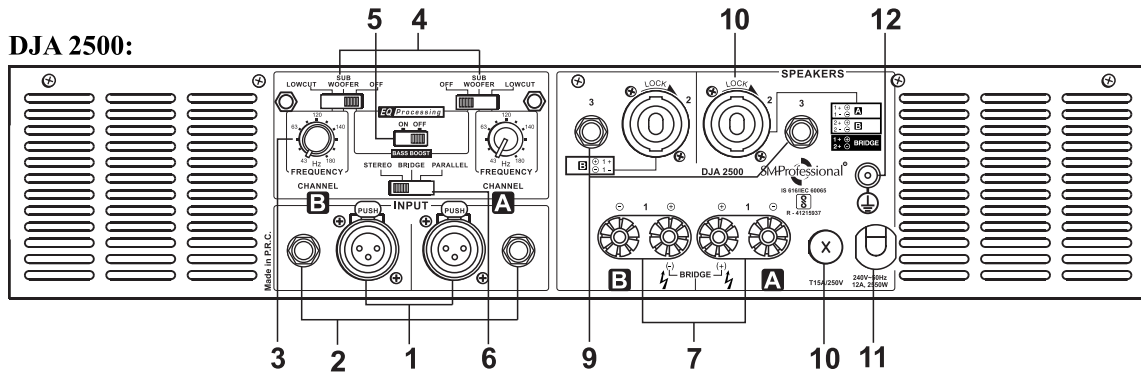
5. Front & Rear Panel Description

FRONT PANEL



- | | | |
|-------------------------------|-------------------------------|-------------------------------|
| 1. Power ON/OFF switch | 2. Power on/off LED indicator | 3. Protect indicator for CH A |
| 4. Protect indicator for CH B | 5. CH A & CH B gain control | 6. Signal LED indicator |
| 7. Clip LED indicator | 8. Bass boost indication | 9. Air Intake Grill |
| 10. RMC Hole | | |

REAR 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 signal ground.
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 configure 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.

Speakon Connector Connections		
Model	CH A Speakon	CH B Speakon
DJA 2500	For Mono & Stereo: + 1 / -1 CH A out / + 2/ -2 CH B out +1/+2 Bridge out	For Mono & Stereo: + 1 / -1 CH B out
DJA 3200	For mono & Stereo + 1 / -1 CH A out Bridge output on Binding post	For Mono & Stereo: + 1 / -1 CH A out
DJA 4000		
DJA 5000		
DJA 6000		
DJA 7000		
DJA 12000		

Model	Rating
DJA 2500	15A
DJA 3200	25A
DJA 4000	25A
DJA 5000	30A
DJA 6000	30A
DJA 7000	40A
DJA 12000	40A Circuit Breaker

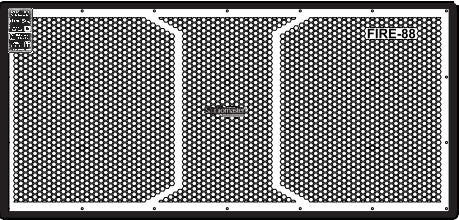
9. **Output-stereo jacks:** Use this 6.3mm jack connector for CH A & CH B Line level output.
10. **Fuse holder socket:** The Fuse ratings are listed in the table,  Replace with same type & rating.
11. **Power cable:** Use this cable for supplying power to unit.
12. **External earth terminal:** For a possible ground connection (e.g. in case of hum problems).

Only for DJA12000 Amplifier:

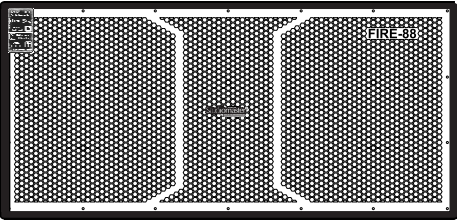
13. **Limiter switch:** This switch activates the limiter when in the ON position. The limiter prevents distortion of the output level when it becomes overloaded. When the output level exceeds its maximum, an internal adjustment is made to prevent overloading. The limiter is specially designed to safeguard connected full-range speakers. The high-tone piezo drivers in these speakers are now protected against distortion and harmonic signals, which result from over driving the amplifier. When using the amplifier as a subwoofer amplifier, the limiter must be switched off to achieve the extra “punch”. Make sure that speaker handles the required power otherwise it will damage during the operation.
 Make sure that speaker handles the required power otherwise it will damage during the operation.
14. **Ground/Lift switch:** Allows input connector & chassis/circuit ground to be separated to address problem with earth loop.
15. **XLR Link Outputs:** These XLR (M) connectors can be used to connect other amplifiers or audio devices as required. They come in handy to daisy chain other amplifiers in large and complex setups. Connect these outputs into the inputs of other/external amplifiers or audio devices.
16. **Circuit Breaker:** Used for protecting the amplifier from higher current above 35A.

6. Setup

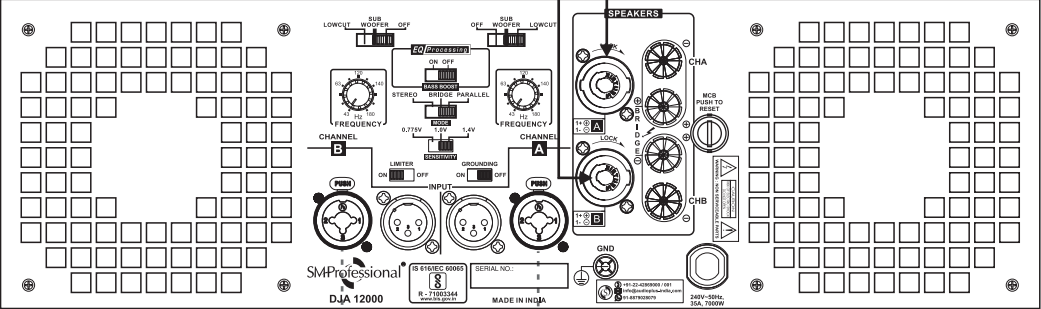
Fire 88



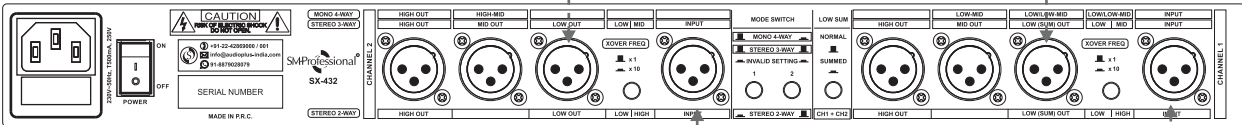
Fire 88



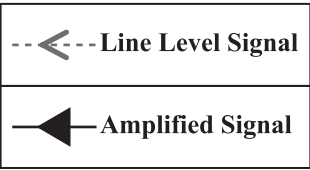
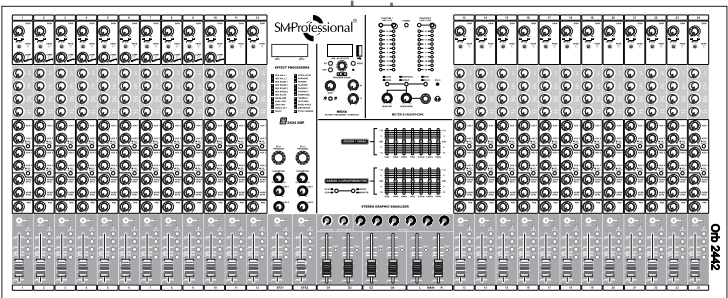
DJA 12000



SX-432 (Active Crossover)



Orb 2422



STEREO / MONO MODE SETUP			
MODEL	POWER	SPEAKER LOAD	SPEAKER PER CHANNEL
DJA 2500	2 X 600 W	8Ω	FIRE 41
	2 X 900 W	4Ω	FIRE 45
DJA 3200	2 X 700 W	8Ω	FIRE 90
	2 X 1125 W	4Ω	FIRE 55
DJA 4000	2 X 900 W	8Ω	FIRE 92
	2 X 1400 W	4Ω	FIRE 57
DJA 5000	2 X 1200 W	8Ω	FIRE 92
	2 X 1900 W	4Ω	FIRE 59
DJA 6000	2 X 1300 W	8Ω	FIRE 92
	2 X 2000 W	4Ω	FIRE 84
DJA 7000	2 X 1600 W	8Ω	FIRE 85
	2 X 2500 W	4Ω	FIRE 84
	2 X 3600 W	2Ω	FIRE 59 X 2

7. Technical Specifications

Model	LOAD	DJA 2500	DJA 3200	DJA 4000	DJA 5000	DJA 6000	DJA 7000	DJA 12000
Stereo RMS Power	2Ω	-----	-----	-----	2 X 2800W	2 X 3000W	2 X 3600W	2 X 6000W
	4Ω	2 X 900W	2 X 1125W	2 X 1400W	2 X 1900W	2 X 2000W	2 X 2500W	2 X 4000W
	8Ω	2 X 600W	2 x 700W	2 X 900W	2 X 1200W	2 X 1300W	2 X 1600W	2 X 2500W
Stereo EIA Power	2Ω	-----	-----	-----	2 X 3700W	2 X 5625W	2 X 6200W	2 X 6800W
	4Ω	2 X 1500W	2 X 1650W	2 X 1950W	2 X 2500W	2 X 3200W	2 X 3700W	2 X 5300W
	8Ω	2 X 825W	2 X 900W	2 X 1100W	2 X 1400W	2 X 1700W	2 X 2400W	2 X 3300W
Bridged RMS Power	4Ω	-----	-----	-----	5900W	6000W	7000W	12000W
	8Ω	1800W	2250W	2800W	3800W	4000W	4700W	8000W
Bridged EIA Power	4Ω	-----	-----	-----	7600W	11250W	11750W	13600W
	8Ω	3000W	3300W	3900W	5000W	6200W	7900W	10600W
Single channel driven RMS Power	2Ω	-----	-----	-----	3000W	3500W	3700W	7000W
	4Ω	1100W	1350W	1700W	2100W	2400W	2600W	5000W
	8Ω	700W	850W	1000W	1280W	1400W	1500W	3000W
Single channel driven EIA Power	2Ω	-----	-----	-----	3800W	5800W	6300W	8300W
	4Ω	1800W	1950W	2450W	2800W	3400W	4800W	6800W
	8Ω	900W	975W	1225W	1600W	1800W	2000W	4600W
Indicators	Power, Signal, Clip, Bass boost & Protect							
Damping factor	>350:1 (8Ω)				>600:1 (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							
Cooling	2 x Variable Speed fans (120MM)							
Power Supply	4 X Variable Speed fans (120MM)							
Dimensions (WxDxH)	482 X 135 X 650mm (3U)							
Net Weight in Kg*	48.0 kg							

* Design and specification are subject to change without notice.



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