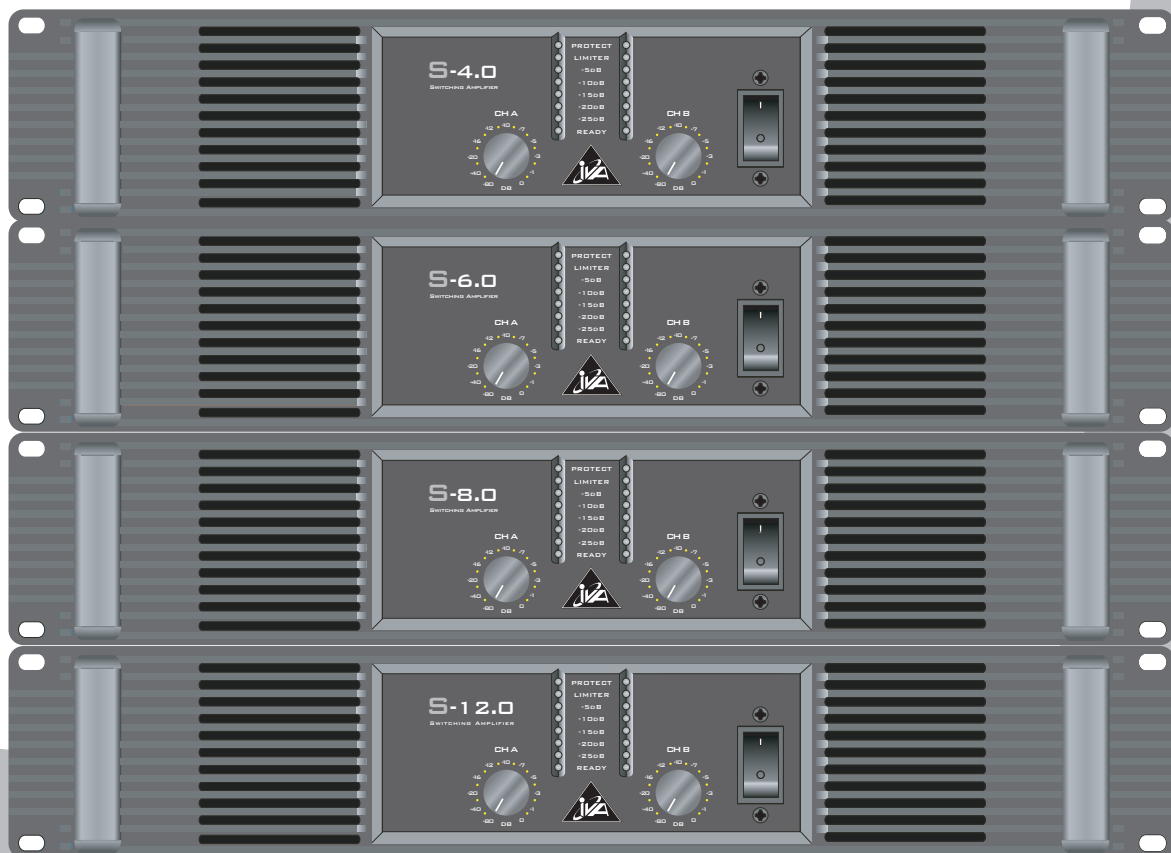


S Series

SWITCHING AMPLIFIER

USER MANUAL



Important Precautions



This symbol is used to alert the operator to follow important operating and precautions detailed in documentation.



This symbol is used to warn operators that uninsulated "dangerous voltages" are Present within the equipment enclosure that may pose a risk of electric shock.

1. Save the carton and packing material even if the equipment has arrived in good condition. Should you ever need to ship the unit, use only the original factory packing
 2. Read all documentation before operating your equipment. Retain all documentation for future reference.
 3. Follow all instructions printed on unit chassis for proper operation.
 4. Do not spill water or other liquids into or on the unit, or operate the unit while standing in liquid.
 5. Make sure power outlets conform to the power requirements listed on the back of the unit.
 6. Do not use the unit if the electrical power cord is frayed or broken. The power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords and plugs, convenience receptacles, and the point where they exit from the appliance.
 7. Always operate the unit with the AC ground wire connected to the electrical system ground. Precautions should be taken so that the means of grounding of a piece of equipment is not defeated.
 8. Mains voltage must be correct and same as the printed on the rear of the unit. Damage caused by connection to improper AC voltage is not covered by any warranty.
 9. Have gain controls on amplifiers turned down during power-up to prevent speaker damage if there are high signal levels at the inputs.
 10. Power down and disconnect units from mains voltage before making connections.
 11. Never hold a power switch in the "ON" position if it won't stay there itself!
 12. Do not use the unit near stoves, heat registers, radiators, or other heat producing devices.
 13. Do not block fan intake or exhaust ports. Do not operate equipment on a surface or in an environment which may impede the normal flow of air around the unit, such as a bed, rug, weather sheet, carpet, or completely enclosed rack. If the unit is used in an extremely dusty or smoky environment, the unit should be periodically "blown free" of foreign matter.
 14. Do not remove the cover. Removing the cover will expose you to potentially dangerous voltages. There are no user serviceable parts inside.
 15. Connecting amplifier outputs to oscilloscopes or other test equipment while the amplifier is in bridged mode may damage both the amplifier and test equipments!
 16. Do not drive the inputs with a signal level greater than the required to drive equipment to full output.
 17. Do not connect the inputs/outputs of the amplifiers or consoles to any other voltage source, such as battery, mains source, or power supply, regardless of whether the amplifier or console is turned on or off.
 18. Do not run the output of any amplifier channel back into another channel's input. Do not parallel-or-series-connect an amplifier output with any other amplifier output. **IVA** is not responsible for damage to loudspeakers for any reason.
 19. Do not ground any red ("hot") terminal. Never connect a "hot" (red) output to ground or to another "hot" (red) output!
 20. Non-use periods. The power cord of equipment should be unplugged from the outlet when left unused for a long period of time.
 21. Service Information. Equipment should be serviced by qualified service personnel when:
 - A. The power supply cord or plug has been damaged;
 - B. Objects have fallen, or liquid has been spilled into the equipment;
 - C. The equipment has been exposed to rain;
 - D. The equipment does not appear to operate normally, or exhibit a marked change in performance;
 - E. The equipment has been dropped, or the enclosure damaged.
 22. To obtain service, contact your nearest **IVA** Service Centre, Distributor and Dealer.
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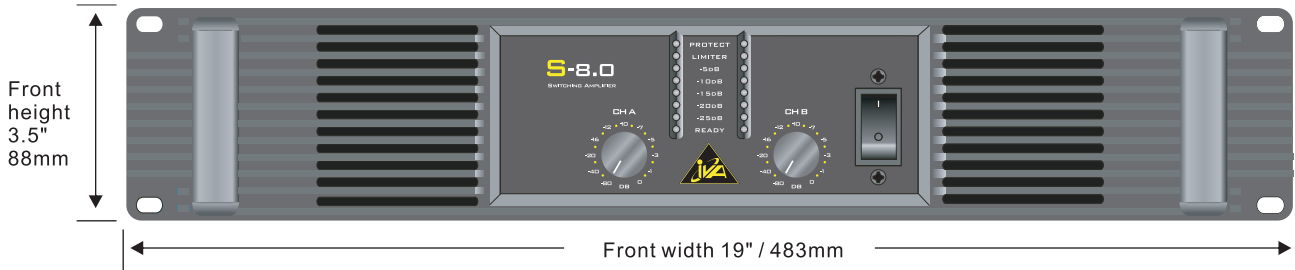
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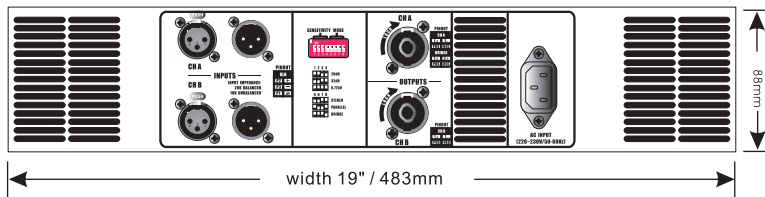
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Specifications
S Series Block Diagram
Wire Gauge Charts

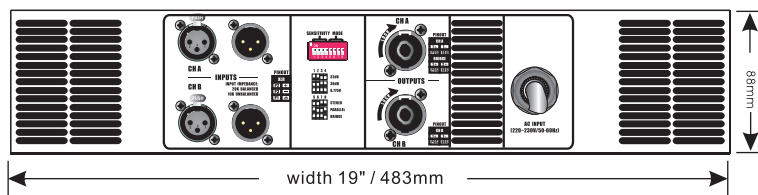
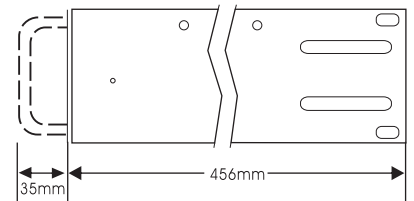
S-4.0, S-6.0, S-8.0, S-12.0 Front View



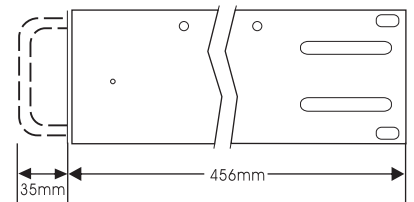
Rear & Side Views



S-4.0
S-6.0



S-8.0
S-12.0





Introduction

Congratulations on your purchase of a new S Series switching amplifier, and thank you for your confidence in **IVA** products. You are among the growing number of audio professionals who have made one of the world's leading suppliers of professional and commercial/industrial audio systems.

For your safety, please read the Important Precautions section before installing and operating the amplifier. The **IVA** S Series is based on an advanced circuit topologist that have made **IVA** amplifiers the choice of touring professionals worldwide. S series amplifiers are designed for high operating efficiency and accurate sonic performance across the full audio bandwidth, even under stressful conditions. In order to maintain strict quality assurance standards, All S Series amplifiers are built in **IVA**'s state-of-The-art manufacturing faculty. Interbal components are the finest available, and key sub assemblies are pre-tested before final assembly. Finally, each amplifier is "burned in" and thoroughly tested (using Audio precision test equitment) before shipping. In addition, all S Series amplifiers incorporate **IVA**'s exclusive A-Guard protection features to safeguard both internal circuitry and connected loudspeakers. This proven guarantee of fail-safe reliability, You can depend on consistent, stable performance even when Your S Series amplifier is subjected to punishing extremes in the most demanding fixed or mobile sound reinforcement applications.

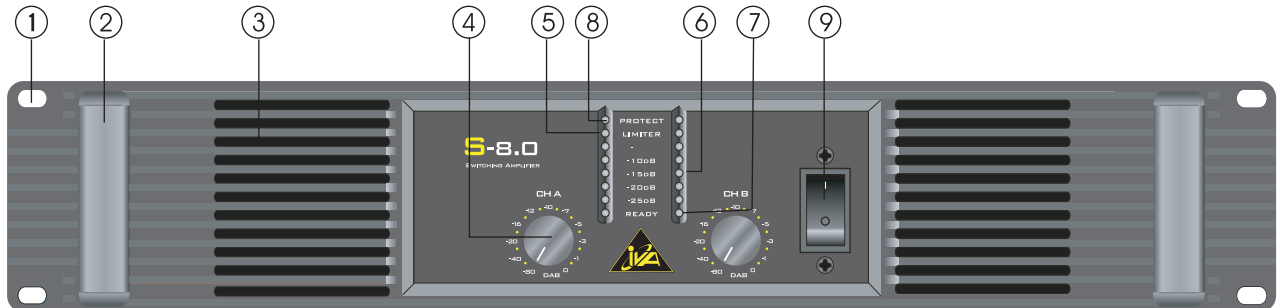
Unpacking

Please inspect the amplifier carefully immediately after unpacking. If you find any damage, notify your supplier/dealer immediately. Only the shipper may file a damage claim with the carrier for damage incur Red during shipping. Be sure to save the carton and all packing materials for the carrier's inspection. if your packing materials are in good condition, please save them. If u ever need to ship the unit back to **IVA** or an authorized service centre, you should use only the original factory packing.

Installation and Mounting

S-4.0, S-6.0, S-8.0, S-12.0 are 2-rack-space high. All mount in standard 19-inch racks. Four front-panel mounting holes are provided on each emplifier. Rear mounting ears give additional support, and use of rear supports is highly recommended in all mobile and touring sound systems.

Front Panel



Never try to hold the circuit breaker/power switch in the "ON" position if it won't stay there itself!

1. Rack Mounting Ears.

Two front panel mounting holes are provided on each mounting ear.

2. Rack Handles.

3. Air cooling windows

This part is the air cooling window. Don't obstruct it.

4. Input Attenuators.

Attenuators allow for precise setting of input gain.

5. Limiter LED.

Illuminates when amplifier limiter enters into action, preventing clipped output. Continuous illumination is not recommended.

6. Signal LED.

Illuminates to indicate that a signal (above a minimum threshold) is present at the amplifier input, and that the signal is being amplified.

7. Ready LED.

Indicates that AC power is connected and the amplifier is turned on. The light is white.

8. Protect LED.

Indicates that the channel is in Protect mode (speakers disconnected by output relay). The light is red.

9. AC Power Switch/Circuit Breaker.

S Series amplifiers have a front-panel combination AC switch and circuit breaker. (No fuses are used) If the switch shuts off during normal use, push it back to the "ON" position once. If it will not stay on, the amplifier needs servicing.