

User Manual

A SERIES Amplifier



Safety instructions

When using this electronic device, basic precautions should always be taken, including the following:

- 1 Read all instructions before using the product.
- 2 Do not use this product near water (e.g., near a bathtub, washbowl, kitchen sink, in a wet basement or near a swimming pool etc).
- 3 Use this device when you are sure that microphone receiver has a stable base and it is fixed securely.
- 4 This product, in combination with loudspeakers may be capable of producing sound levels that could cause permanent hearing loss. Do not operate for a long period of time at a high volume level or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should consult with otorhinolaryngologist.
- 5 The product should be located away from heat sources such as radiators, heat vents, or other devices that produce heat.
- 6 The product should be connected to a power supply that is described in the operating instructions or are marked on the product.
- 7 The power supply should be undamaged and never share an outlet or extension cord with other devices. Never leave device plugged into the outlet when it is not being used for a long period of time.
- 8 Care should be taken that objects do not fall into liquids and liquids would not be spilled on the device.
- 9 The product should be serviced by qualified service personnel if:
 - The power supply or the plug has been damaged.
 - Objects have fallen into or liquid has been spilled on the product.
 - The product has been exposed to rain.
 - The product has been dropped or the enclosure damaged.
- 10 There are some areas with high voltage inside, to reduce the risk of electric shock do not remove cover of the microphone receiver or power supply. The cover should be removed by the qualified personnel only.

 CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	To reduce the risk of electric shock, do not remove screws. No user-serviceable parts inside. Refer servicing to qualified service personnel. To reduce the risk of fire, electric shock or product damage, do not expose this apparatus to rain, moisture, dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.
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Before you start

A – power amplifiers. 1U high, slim and modern looking. Can be used for various purposes, including live music, background music, in conference sound systems and other applications. A professional power amplifiers are designed in order to meet the increasing demand of low power amplifiers for installation market. These stereo power amplifiers have complete protection functions and superior performance.

FEATURES

- -115VAC 60Hz, -230VAC 50Hz select switch and IEC.
- DC and thermal overload protection
- Balanced phoenix connectors, screw terminal speaker connectors
- Short circuit and speaker protection
- Stereo/bridge mode.
- Power ON, Clip, Signal, and Protect LED indicators for each channel.
- 2 variable speed fans for cooling
- Roadworthy, rugged double rack space (1U) housing

Operation



Front Panel

1. Power switch
2. Power LED indicator
3. Protection LED indicator
4. Channel signal LED indicator
5. Channel clipping LED indicator
6. Channel level control



Rear Panel

1. Fans
2. Input connectors
3. Mode selector switch
4. Output connectors
5. AC voltage selector switch
6. Fuse holder
7. AC power connector

Operation

Front and back panels

POWER SWITCH

Before turning on the amplifier, check all connections and turn down the level controls. A momentary muting is normal when turning the amplifier on or off. (Caution: Always turn on your power amplifier last, after all other connected equipment, and always turn off your power amplifier before other connected equipment.)

POWER LED INDICATORS

These LEDs illuminate when the power is turned "ON".

PROTECT LED INDICATOR

These LEDs illuminate if the power amplifiers output connection is shorted or the load impedance is too low. When this LED lit up, turn OFF the device and check output connections.

SIGNAL LED INDICATOR

This LED illuminate when input signal greater than 100 mV is present.

CLIP LED INDICATOR

This LED illuminate when amplifier output is within 3dB of clipping. Occasional blinking is acceptable, but if LED lights on more than intermittently, turn down either the power amplifier level or reduce the output level of the preceding component to avoid audible distortion.

FUSES

Fuse holders for T2A-6.3A/250V fuses. If these fuses continuously blow, shut off the unit and have it serviced by qualified service personnel.

AC VOLTAGE SELECTOR SWITCH

Set for the proper voltage for your area: ~115V (60Hz) or ~230V (50Hz).

MODE SELECTOR

Select the stereo or bridge amplifier configuration. If bridge mode is selected, the minimum loudspeakers impedance should not be less than 8Ω.

FANS

The fan speed is varied automatically to maintain the proper internal operating temperature.

General Specifications

A Series amplifier

	A100	A200
4Ω / EIA 1 kHz / 0.1% THD (Stereo mode)	100W	200W
8Ω / EIA 1 kHz / 0.1% THD (Stereo mode)	70W	130W
8Ω / EIA 1 kHz / 0.1% THD (Bridge mode)	200W	400W
Input Sensitivity	0.775 Vrms (0 dBu)	
Input Impedance	10kΩ unbalanced	
Frequency Response	25 Hz - 25 kHz: ±1 dB 5 Hz - 50 kHz: ±3 dB	
Distortion (SMPTE-IM)	< 0.03%	
Signal to Noise Ratio (20 Hz - 20 kHz) 8Ω	> -100 dB	
Damping Factor (1 kHz and below)	> 400 at 8Ω	

General Specifications

A Series amplifier

	A100	A200
Amplifier Protection	Full short circuit, open circuit, thermal. Stable into reactive or mismatched loads	
Load Protection	Turn-on/off muting, current limiter	
Controls	Front: AC switch, channel 1 & 2 volume knobs	
Indicators	Power-on: Blue LED / Signal: Green LED (1 per channel) / Clip: Red LED (1 per channel) Protect: Red LED	
Connectors (each channel)	Input: balanced Phoenix Output: Screw terminals	
Power Requirements	Selectable: 115V AC 60Hz / 230V AC 50Hz	
Fuses	AC115V:T4A/250V AC230V:T2A/250V	AC115V:T10A/250V AC230V:T5A/250V
Dimensions (HxWxD)	45x482x320mm (1.73"x19.0"x12.6")	
Weight - Net	8.0 kg	8.3 kg