

# User Manual

# iA 2X250 Installation 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). Care should be taken that objects do not fall into liquids and liquids would not be spilled on the device.
- 3 Use this device when you are sure that it 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 Note for power connections: for pluggable equipment, the socket-outlet shall be installed near the equipment and shall be easily accessible.
- 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 Power disconnection: when the power cord connected to the power grid is connected to the machine, the standby power is turned ON. When the power switch is turned ON, the main power is turned ON. The only operation to disconnect the power supply from the grid, unplug the power cord.
- 9 Protective Grounding - An apparatus with class I construction shall be connected to a power outlet socket with a protective grounding connection.  
Protective Earthing - An apparatus with class I construction shall be connected to a mains socket outlet with a protective earthing connection.
- 10 The lightning flash with an arrowhead symbol, with an equilateral triangle, is intended to alert the user to the presence of uninsulated dangerous voltage<sup>1</sup> within the products enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons. 
- 11 The exclamation mark 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 appliance. 
- 12 There are some areas with high voltage inside, to reduce the risk of electric shock do not remove cover of the device or power supply. The cover should be removed by the qualified personnel only.
- 13 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.

 <b>CAUTION</b> <b>RISK OF ELECTRIC SHOCK</b> <b>DO NOT OPEN</b>	<p>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.</p>
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# Before you start

iA 2X250 is a professional 100 V installation amplifier for contractor market. It features 2 outputs, fan powered cooling system, rack mount. Amplifier is designed to work under heavy conditions and requires minimal maintenance after installation. For use in medium or large public address or voice evacuation systems.

## FEATURES

- 2 output channels
- Easy output voltage configuration
- High-pass filter
- Dual or Single input mode
- Switching power supply
- Fan powered cooling system
- Power ON, Clip, Signal, and Protect LED indicators for each channel.

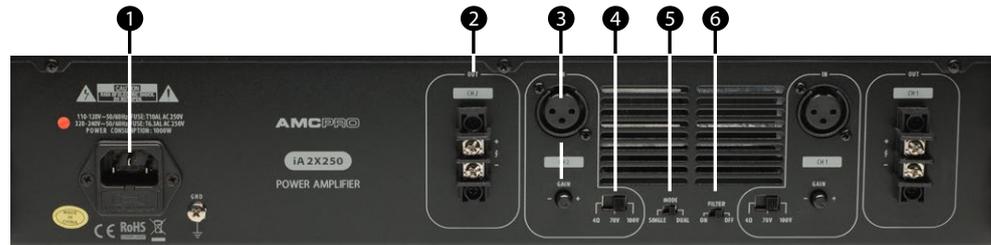
# Operation

## Front Panel



1. Signal indicator | 2. Channel output voltage LED indicator | 3. Protection LED indicator | 4. Power switch

## Rear Panel



1. Mains lead socket and fuse holder | 2. Output terminals | 3. Channel input and gain control | 4. Output voltage switch  
5. Input mode switch | 6. Filter switch

# Operation

## Front and rear 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.)

### **SIGNAL INDICATOR**

Signal LED indicates audio signal in the amplifiers input.

### **PROTECT INDICATOR**

After powering on amplifier protection LED starts illuminate and goes off after few seconds if the amplifier is not damaged.

### **CHANNEL INPUT**

This is balanced XRL line level audio input. Gain of this input can be adjusted by using gain control knob.

### **INPUT MODE**

Dual mode: all amplifier outputs work independently.

Single mode: allows two channels operate in parallel with same signal. In this mode two channel inputs are internally connected.

### **FILTER SWITCH**

Reduce low and high audio frequencies at 200 Hz and 10 kHz points by -3dB.

### **OUTPUT CONFIGURATION INDICATOR AND OUTPUT MODE SWITCH**

Amplifier output can be configured for 4Ω, 70V and 100V audio system by using switch in the rear panel. LED indicators on the front panel indicate the selection.

### **AMPLIFIER OUTPUT**

Use this connector to connect amplifier to the loudspeakers. Please take attention to the loudspeakers impedance and select corresponding output configuration by using output configuration switch. Please note: incorrect output configuration can damage loudspeaker or amplifier!

### **MAIN POWER CONNECTOR**

This connector is designed for connecting main power to the amplifier. Connector is combined with fuse holder.

# General Specifications

## iA 2X250 installation amplifier

Power supply	AC 230 V / 50 Hz
Output power	2 x 250 W
Total harmonic distortions	< 0,1 %
Input sensitivity	0 dBu
Max input level	+20 dBu
Gain control	Min position $-\infty$ Max position 0 dB
S/N ratio	95 dB
Frequency response	20 Hz – 20 kHz
Cooling	Fan powered cooling system
Indicators	Signal, protection, output configuration
Output	100 V, 70 V, 4 $\Omega$
Weight	7,4 kg
Dimensions	432 mm (W) x 88 mm (H) x 350 mm (D)

The specifications are correct at the time of printing this manual. For improvement purposes, all specifications for this unit, including design and appearance, are subject to change without prior notice.