



Professional Public Address System

**EMPA-250
EMPA-380
EMPA-500
*Power Amplifier***



USER MANUAL

Before operating, please read this manual completely

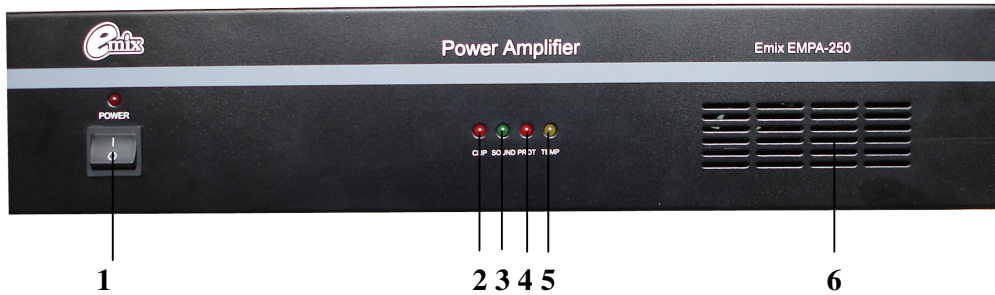
FEATURES:

- Transformer isolated 100V, 70V and 4 Ohms speaker outputs, balanced, no grounding.
- 5 LED indicators for status display
- XLR socket and 6.3 mm jack for amplifier link
- Short circuit output protection & LED display
- Series amplifiers of high output power available.

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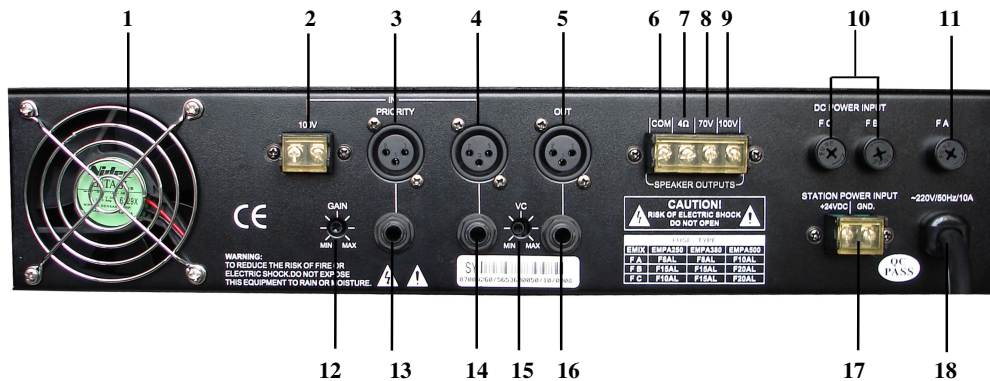


FRONT PANEL:



1. **AC Power Switch**
2. **CLIP LED Indicator** (Please reduce the gain to prevent severely clipped waveforms reaching the loudspeakers)
3. **SOUND LED Indicator** (Output level)
4. **PROTECTION LED Indicator** (DC fault or short circuit output protection
5. **TEMPERATURE LED Indicator** (high temperature indication, >90°C)
6. **Unit's Fan Intake Window**

REAR PANEL:



Notice: Input 3 and 13 are prior to other inputs.

1. Fan Exhaust Window
2. 100V Signal Input
3. XLR Input Socket
4. XLR Input Socket
5. XLR link Output Socket
6. COM output terminal
7. 4~16Ω output terminal
8. 70V output terminal
9. 100V output terminal
10. 24V DC fuse (Parallel Connection)
11. 240V AC fuse
12. 100V Signal Volume control
13. 6.3mm input socket(with priority)
14. 6.3mm input socket
15. Output volume control
16. 6.3mm Link output socket
17. 24V DC Input Terminal
18. 240V AC Power cord

OPERATION:

Make certain that speakers and input sources are properly connected before switching on.

Keep volume level turned down to minimum before switching on.

Protection LED Indicator lights on while operation when faults happen. Switch off the apparatus immediately and correct the faults before switching on.

INPUT CONNECTION:

The Input sockets/terminals are on the rear panel under the label “IN”. There are three input ways: 100v input terminal, two XLR input sockets (figure 1), and two 6.3mm RCA input sockets.

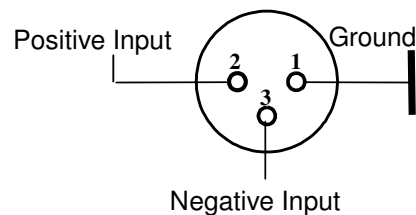


Figure 1 3-pin XLR Input Sockets

OUTPUT CONNECTION:

Speaker output terminals are on the rear panel. The terminal under the label “COM” is COMMON. The terminals under the labels “4Ω, 70V, 100V” are Hot. The connection ways should be COM-4Ω / COM-70V / COM-100V.

Normally the “rated power” (70V / 100V) output terminal is used in output connection. The connected speaker should be with a transformer, and the gross power of speakers should be less than the rated power of the amplifier.

“Rated Impedance”(4~16Ω) output terminal can be used when speakers are fixed closely, and the gross impedance of speakers should be 4~16Ω.

XLR terminal or 6.3mm RCA terminal under the label “OUT” is line output terminal.

NOTE:

- **Only choose one pair of terminals for speaker connection.**
- **Never connect two Hot terminals (labeled 4Ω, 70V, 100V) together.**

SPECIFICATIONS

Model	EMPA250	EMPA380	EMPA500
Rated Power	250W RMS	380W RMS	500W RMS
Input sensitivity	1V		
S/N Ratio	>85dB		
Frequency Response	80Hz~16kHz / ±3dB		
THD 4Ω/1kHz	<0.5 %		
Cooling Style	12V DC Fan		
Indicators	Power: Red, Clip: Red", Sound: Green, Protection: Red, Temperature: Orange		
Protection	Turn on delay, thermal, DC fault, short circuit		
240V AC Fuse	F6AL	F8AL	F10AL
24V DC Fuse	FB15AL/FC10AL	FB/FC: 15AL	FB/FC: 20AL
Power Supply	AC220~240V / 50~60Hz 24V DC		
Power Consumption	500W	760W	1000W
Dimension	88×483×390mm		
Gross Weight	17kg	19.3kg	20.6kg
Net Weight	16kg	18.3kg	19.5kg

Specifications are subject to change without notice.

CAUTION

- For safety, when “Power switch” is off, please detach the power plug from the receptacle.
- The apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
- To reduce the risk of electric shock, do not remove the cover.
- No user serviceable parts inside. Refer servicing to qualified service personnel.