

FI-AMP300X2V





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SYMBOLS



Frog declares that this device is in compliance with applicable CE standards and regulations. Before putting the device into operation, please observe the respective country-specific regulations!



Waste Electrical and Electronic Equipment (WEEE)
Please dispose of this product at the end of its operational lifetime by bringing it to your local collection point or recycling center for such equipment.



This symbol alerts the user to the presence of recommendations about the product's use and maintenance.



Warning: DANGEROUS VOLTAGE.
Terminals marked with this symbol carry a risk of electric shock, therefore external wiring connected to these terminals requires installation by a qualified professional or the use of ready-made leads or cords.



This symbol alerts the user to the presence of recommendations about product's use and maintenance.



This device complies with Restriction of Hazardous Substances Directive.

1. INTRODUCTION

The FROG-IS FI-AMP300X2V is the first choice for demanding musicians and DJs who work in loud environments.

A multi-purpose system (200 W), it is fully equipped to serve as a main PA, a stage monitor, a distributed audio system and also other applications. With a broad range of accessories and ultimate flexibility, it ensures a sound quality and intelligibility without compromise.

The FI-AMP300X2V delivers punchy, assertive sound. It's integrated; high performance delivers very high sound pressure levels with an exceedingly dynamic, tight and clean response. Loaded with top quality speakers, it provides premium audio performance with maximum reliability and minimum power compression that is easy to install.

This is a strong-built and robust system designed to handle high loads, rendering lead vocals, guitars, electronic instruments, and playback tracks with power and authority, easily delivering sound across medium-to-longer distances. The FI-AMP300X2V features provide musicians and audiences with an excellent acoustic experience, even on the most demanding stages.

2. UNPACKING

FROG-IS speakers are built to the highest standard and thoroughly inspected before leaving the factory. Upon arrival, carefully inspect the shipping carton, then examine and test your new product. If you find any damage, immediately notify the shipping company. Only the consignee may file a claim regarding the system's electronic equipment.

3. SAFETY



WARNING



Read all safety information below and operating instructions before using this device to avoid injury.

SAFETY AND HANDLING INFORMATION



Warning. Failure to follow safety instructions could result in fire, shock or other injury or damage

IT IS IMPORTANT THAT LOUDSPEAKER SYSTEMS ARE USED IN A SAFE MANNER.

Avoiding Hearing Damage. Professional loudspeakers are capable of producing extremely high sound levels and should be used carefully. Never stand close to loudspeakers driven at high volume. Set the volume to a safe level. You can adapt over time to a higher volume of sound that may sound normal but can be damaging to your hearing. Hearing loss get worse every time you're exposed to a sound level of 90 dB or over for an extended period of time. If you experience ringing in your ears or muffled speech, stop listening and have your hearing checked. The louder the volume, the less time is required before your hearing could be affected.

Choking Hazards. This device contains small parts, which may present a choking hazard to small children. Keep the device and its accessories away from small children.

Avoiding Water and Wet Locations. Do not install the system in wet or humid locations without using weather protection. Take care not to spill any food or liquid on the device. In case it gets wet, unplug all cables, turn off the device before cleaning, and allow it to dry thoroughly before turning it on again. Do not attempt to dry the device with an external heat source, such as a microwave oven or hair dryer. A device that has been damaged as a result of exposure to liquids could be not serviceable. If the device is exposed to rain or excess moisture, unplug the power cord immediately.

Keeping the Outside Clean. Handle the device with care to maintain its appearance. To clean it, unplug all cables and turn off it. Warning: unplugging the power cord is the only way to disconnect power completely. Then use a soft, dry or slightly damp cloth. Avoid getting moisture in openings. Don't use window cleaners, household cleaners, aerosol sprays, solvents, alcohol, ammonia, or abrasives to clean the device.

Carrying, Handling and Installing the device. The device contains sensitive components. Do not drop, disassemble, open, crush, bend, deform, puncture, shred, microwave, incinerate, paint, or insert foreign objects into it. If your device has been dropped or damaged, or if liquid has been spilled into the chassis, unplug the power cord immediately.

Do not operate speakers for an extended period of time with sound distortion. This is an indication of malfunction, which in turn can generate heat and result in a fire.

To reduce the risk of overheating the device, avoid exposing it to direct sunlight and take care to do not install it near heat emitting appliances, such as a room heater or stove.

No naked flame sources such as lighted candles should be placed near the device.

Operate the device in a place where the temperature is between -20°C and 50°C (-4°F to 122°F). Avoid dramatic changes in temperature or humidity when using it, as condensation may form on or within the device.

During the use, it is normal for the device to get warm. The exterior of the device functions as a cooling surface that transfers heat from inside the unit to the cooler air outside.

The device should be placed so that its location does not interfere with its proper cooling. For example, the device shouldn't be placed on beds, carpets or similar surfaces that could create an obstacle for the ventilation openings.

To reduce the risk of electric shock, unplug the power cord before connecting audio cables.

Set up your device on a stable retaining horizontal surface. If combined or mechanically connected with other products, always verify the stability of the resulted system. Install the unit only in a location that can structurally support the weight of the unit, far away from people who can interfere with the stability of the system. In case of outdoor installation, assure that the wind does not interfere with the system's stability, taking extra securities like chains, weights, ropes or any other certified anchoring systems. Doing otherwise may result in the unit falling down, causing personal injury or property damage.

Protect the power cord from being walked on or pinched.

This audio system is not intended for use in the operation of nuclear facilities, aircraft navigation or communication systems, air traffic control systems, or for any other uses where the failure of the audio system could lead to death, personal injury, or severe environmental damage.

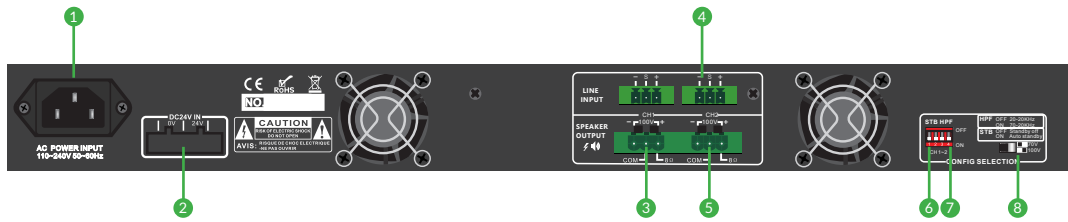
Do not make repairs yourself. Caution, risk of electric shock. Do not open the device, it contains potentially hazardous voltage. Never attempt to disassemble, repair or modify the system yourself. Disassembling the unit may cause damage that is not covered under the warranty. The device contains no user-serviceable parts. Repairs should only be performed by factory trained service personnel. Do not plug the power cord if you suspect that your device needs service or repair.

Voltage requirement. Make sure that the supplied voltage stays within the specified range. Verify that your mains connection satisfies the power ratings of the device.

4. CONTROL & CONNECTOR AND FUNCTION



- 1) CLIP
Clip indicator will light on in red once the input or output is too high. There are two separate CLIP indicators for each two channels..
- 2) INPUT
Input indicator will light on in green once there is any input signal has been detected. There are two separate input indicators for each two channels.
- 3) OUTPUT
Output indicator will light on in green once there is output signal has been passed. There are two separate output indicators for each two channels.
- 4) Standby/PROT
Protection indicator will light on in orange once the amplifier comes into protection status. The protection maybe resulted from speaker line short circuit, speaker line open circuit, amplifier overload and inner working temperature over 55 °C, this indicator give visually guidance ask for repair and It will light off once these failures been repaired. There are two separate protection indicators for each two channels.
- 5) POWER
Power indicator will be light on in blue once the unit has been powered whether by AC or DC.
- 6) POWER SWITCH
Power switch used to power on and power off the equipment.



- 1) **AC POWER Socket**
AC power cord for input from 110V to 240V, the power cord itself is auto-switching.
- 2) **DC24V Battery Input**
This input is used for battery power supply, which will be automatically switch on once the AC power supply fails as backup use.
- 3) **100V & 70V SPEAKER OUTPUT**
The speaker outputs shall be connected to 100V & 70V line loudspeakers, the negative end to the speaker negative end and the positive end to the speaker positive end. There are two channel separate 100V & 70V speaker outputs which could be managed respectively. These speaker output are supplied in phoenix connector.
Never mixed the negative end and the positive one, which may cause the short circuit protection.
Never connection the low impedance loudspeaker to these 100V & 70V ends, which may burn up the speaker or have heavy distortion.
- 4) **LINE INPUT**
The line input support both balanced or unbalanced input, these input are supplied in phoenix connectors. There are four channel separate line inputs which could be managed respectively.
- 5) **8Ω SPEAKER OUTPUT**
The speaker outputs shall be connected to low impedance 8Ω loudspeakers, the negative end to the speaker negative end and the positive end to the speaker positive end. There are two channels separate 8Ω speaker outputs which could be managed respectively. These speaker output are supplied in phoenix connector.
Never mixed the negative end and the positive one, which may cause the short circuit protection.
Never connection the 100V & 70V line loudspeaker to these 8Ω ends, which may burn up the speaker or have heavy distortion.
- 6) **AUTO-STANDBY**
The Auto standby function will be enabled or disabled by pre-set the four channel separate dipswitch. The enabled auto-standby function will automatically power come into standby once no input has been detected within 2 minutes. The amplifier will immediately wake up once there is detection of input signal. There are four channel separate auto-standby dipswitch which could be managed respectively.
- 7) **HIGH PASS FILTER**
The high pass filter function will be enabled or disabled by pre-set the four channel separate dipswitch. There are four channel separate high pass filters which could be managed respectively.
- 8) **100V/70V output switch**
The switch is for optional of 100V/70V selection, to give 100V or 70V speaker output.

5. SPEAKER CONNECTION

Before connecting speakers, disconnect the AC power cable. Note the proper connecting terminals as shown below. Make sure that the total impedance is not less than the rated impedance indicated.

- Connecting 8Ω Speaker Systems

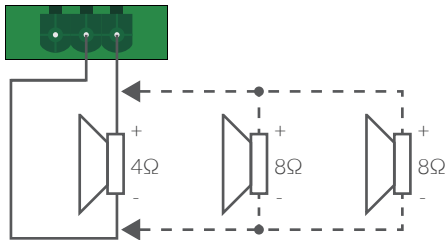
When connecting conventional 8Ω speaker systems, connect the speaker's positive (+) side to the terminal labeled 8Ω. Connect the speaker's negative (-) side to the terminal labeled COM.

- Connecting High-Voltage Distributed Speaker Systems

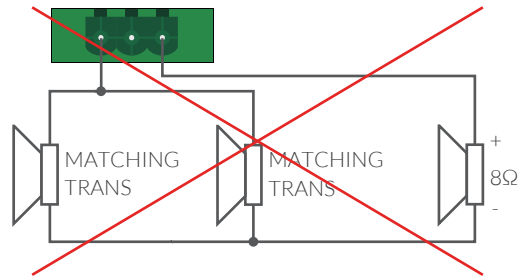
When connecting a low-impedance (100V) speaker system in parallel, connect the speaker's positive (+) side to the terminal labeled 100V.

Connect the speaker's negative (-) side to the terminal labeled COM.

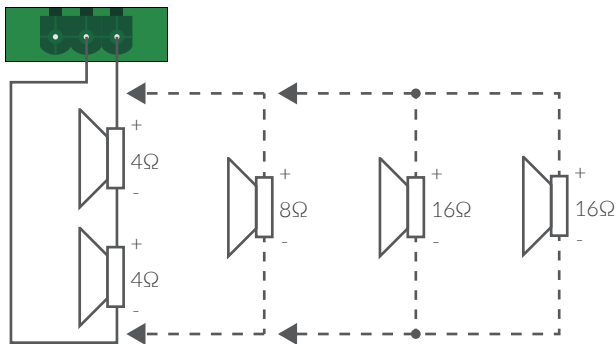
FOR 4Ω LOW IMPEDANCE SPEAKER CONNECTION



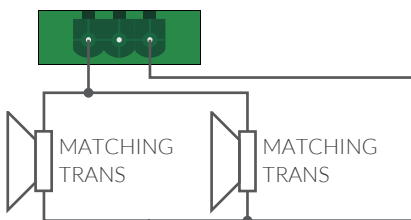
WRONG SPEAKER CONNECTION



FOR 8Ω LOW IMPEDANCE SPEAKER CONNECTION



FOR 100V SPEAKER WITH TRANSFORMER CONNECTION



11. SPECIFICATIONS

FI-AMP300X2V	
Output Power @8Ω	2 x 300W
Output Power @4Ω	2 x 500W
Output Power Bridge@8Ω-70V/100V	1 x 1000W
	2 x 300W
Class	D
Frequency response	35 Hz to 20 KHz (+/-3dB)
THD + N	<-0.05% @ 8 Ω / 1 KHz
Slew Rate	40V / us
S/N Ratio	>98 dB
Damping factor	>500 @ 8 Ω
Channel separation	>100 dB @ 8 Ω / 1 KHz
Input impedance	20 KΩ (Bal.) / 10 KΩ (Unbal.)
Input sensitivity	1.0 Volt
Protection	DC, Short circuit, Overheat, Soft start
Front:	On/ Off Switch, 2 x Volume Ctl.
Rear:	Ground lift, Input link mode, Bridge mode (pair)
Input connectors	2 x XLR (Bal.)
Ouput connectors	2 x Speakon 4 contacts (1+/1- 2+/2-) and 2 x Phoenix 3 contacts
Dimention	1U
Dimensions WxHxD	483 mm * 44 mm * 420 mm
Weight	8 Kg





FROG-IS

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