



**MARK
AUDIO**



MA 1000 POWER AMP

Owner's Manual

1. IMPORTANT SAFETY INSTRUCTIONS

- 1) Read these instructions;
- 2) Keep these instructions;
- 3) Heed all warnings;
- 4) Follow all instructions;
- 5) Do not use this apparatus near water;
- 6) Clean only with a dry cloth;
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions;
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatuses (including amplifiers) that produce heat;
- 9) Do not defeat the safety purpose of the polarized or ground-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet;
- 10) Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus;
- 11) Only use attachments/accessories specified by the manufacturer;
- 12) Unplug this apparatus during lightning storms or when unused for long periods of time;
- 13) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as when the power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, or when the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped;
- 14) "Warning: to reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture; and objects filled with liquids, such as vases, should not be placed on this apparatus";
- 15) The socket outlet shall be installed near the equipment and shall be easily accessible;
- 16) The power cord must be unplugged prior to servicing.

MORE INFORMATION

For warranty and service information, please contact your local Markaudio distributor (contact information available at www.markaudio.it).

For more technical information, please visit us at www.markaudio.it and fill out the form on the Contact Us page.

We hope you enjoy your power amp and use it to make great music!

"The Lightning Flash with arrowhead symbol within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product enclosure that may be of sufficient magnitude to constitute a risk of shock to persons."

"The exclamation point 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 product."



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1. PRÉCAUTIONS D'EMPLOI

- 1) Lire ces instructions;
- 2) Conserver ces instructions;
- 3) Suivre tous les conseils d'utilisations;
- 4) Suivre toutes les instructions;
- 5) Ne pas utiliser cet appareil au bord de l'eau;
- 6) Nettoyer uniquement avec un chiffon humide;
- 7) Ne pas bloquer le système de ventilation. Installer conformément aux instructions du fabricant;
- 8) Ne pas installer l'appareil près d'une source de chaleur tel qu'un radiateur, un fourneau, ou bien un autre appareil qui produit de la chaleur;
- 9) Ne pas modifier le système de sécurité de la fiche polarisée ou de la fiche pour les prises de terre. Une fiche polarisée a deux broches, l'une étant plus distante de l'autre. Une fiche pour prise de terre a deux broches et une pointe pour la masse. La broche plus distante et la pointe pour la masse ont été installées pour votre sécurité. Si la fiche fournie ne rentre pas dans votre prise de courant consulter un électricien pour la substitution;
- 10) Protéger le cordon d'alimentation afin qu'il ne soit pas piétiné ou écrasé tout particulièrement au niveau des fiches, des prises de courant femelles, et des parties qui sortent de l'appareil;
- 11) Utiliser uniquement les accessoires recommandés par le fabricant;
- 12) Ne pas brancher l'appareil en cas d'orage accompagné d'éclairs. Le débrancher en cas de non utilisation prolongée;
- 13) S'adresser à un service assistance agréé si l'appareil a subi des dommages, si le cordon d'alimentation ou la fiche a été endommagé, si un liquide a été renversé sur l'appareil ou bien si un objet est tombé dans l'appareil, si ce dernier a été exposé à la pluie ou à l'humidité, s'il ne fonctionne pas correctement ou s'il est tombé;
- 14) "Avertissement: pour réduire le risque du feu ou de décharge électrique, n'exposez pas cet appareil à la pluie ou l'humidité et les objets remplis de liquides; tels que des vases, ne devraient pas être placés sur cet appareil";
- 15) La prise de courant doit être installée près de l'appareil et doit être facilement accessible;
- 16) La fiche principale doit être débranchée avant toute opération d'entretien.



MA 1000 USER'S MANUAL



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3. MA 1000 POWER AMP - INTRODUCTION

Congratulations on your purchase of the MA 1000 power amp!

The MA 1000 is designed for high operating efficiency, providing the greatest flexibility with the highest reliability. We are very proud of the high quality standard that we're able to offer thanks to our 100% Made in Italy production, state-of the-art testing and quality control facilities, and top-quality components.

The MA 1000 gives maximum ease of operations, and its amazing power/size ratio (1000W/1 rack unit) allows you to have an impressive amount of power with incredible portability!

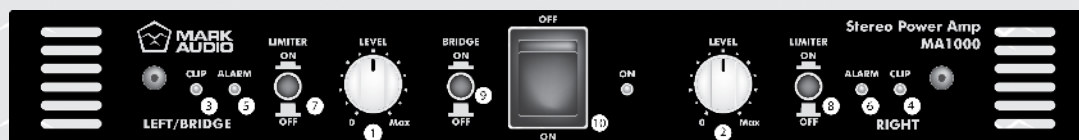
The MA 1000 provides 500 watts/channel @ 4 ohms or 300 watts/channel @ 8 ohms when used in stereo applications, or 1000 watts bridged mono into an 8 ohm load! That means that in 4 units of a standard rack case you can have 4 MA 1000s = 4000W!!

This manual will help you get the most out of your MA 1000 power amp. If you have any questions after reading it, we invite you to contact us any time with your comments and questions, at info@markaudio.it.

Thank you again, and enjoy your Markaudio MA 1000!



4. FUNCTIONS OVERVIEW (FRONT PANEL)



LEVEL left (1) - This controls the volume level of the left channel. In bridge mode this is the master level.

LEVEL right (2) - This controls the volume level of the right channel. In bridge mode this is disabled.

CLIP (3) (4) - The clip LED allows you to set the optimal gain level of your signal so that you can avoid degradation of your signal quality. To find the optimal level back off the MA 1000 power amp level so that the LED rarely turns on.

ALARM (5) (6) - The Alarm LED signals failure or protection of the power module. The automatic short circuit protection detects problems and shuts down the amplifier before any internal damage can be done.

LIMITER (7) (8) - This switch allows you to turn the limiter for each channel on and off.

BRIDGE (9) - This switch allows you to choose the BRIDGE mode, in which the MA 1000 power amp operates as a mono unit sending 1000W to an 8 ohm load (Channel 2 becomes inoperable when the Bridge mode is on). In the "bridged" position the LED will be "ON". In "OFF" position the unit operates as a normal stereo amplifier with 500 watts @ 4 ohms (or 300W/channel @ 8 ohms) per channel or side.

ON/OFF (10) - This switch powers up the MA 1000 power amp; a LED on the right indicates that the unit is on.

5. CONNECTIONS (REAR PANEL)



INPUT left (11) - This XLR input provides an input to the Left channel from the output of your mixer, or the last device in your effects chain. This connection is also used as the input connection when operating the MA 1000 power amp in Bridge mode.

INPUT right (12) - This XLR input provides an input to the Right channel from the output of your mixer, or the last device in your effects chain. Use this input and the Left channel balanced input when running in stereo. Please note that the Right input is inoperable in Bridge mode.



LINK left (13) / right (14) - Use these balanced outputs to connect other devices.

GROUND LIFT for inputs (15) and links (16) - Occasionally you may detect a constant hum when using the power amp. This is almost always due to a grounding problem related to your power source; you will likely eliminate/reduce this hum simply by flipping the Ground Lift (GND) switch.

SPEAKER OUT left (17) and right (18) - These speakon outs provide power outputs for Left and Right channels to speaker cabinets. **Do not connect these outputs to a load of less than 4 ohms!**

SPEAKER OUT BRIDGE (19) - This speakon out is used when using the MA 1000 power amp in mono-bridge mode. **Do not connect this output to a load of less than 8 ohms!**

Note: always be certain to use speaker/s capable of handling the power provided in the above mentioned applications.

AC POWER (20) - Connection for the power cord. This location also houses the main fuse of the unit.

6. TECHNICAL SPECS

INPUTS

INPUTS LEFT/MONO (BRIDGE) & RIGHT Balanced, impedance 5 Kohms, maximum voltage: 30 Vpp

GND LIFT One for each channel

OUTPUTS

LINK Balanced, parallel output for each channel (one GND lift for each channel)

POWER OUTPUT 300+300W @ 8 Ω , 500+500W @ 4 Ω , 1000W @ 8 Ω bridged
Power consumption: medium 500W, maximum 1200W

CONTROL

LEVEL Left/Mono, Right

LIMITER ON/OFF Left/Mono, Right

BRIDGE On/Off

OTHER

SLEW RATE 10 V/us

DAMPING FACTOR >60

NOISE RATIO >100 dB/A

FREQUENCY RESPONSE 3 Hz to 20 kHz

SENSITIVITY 500mVp

POWER DEVICES switching MOSFETs

DIMENSIONS 1 Unit standard rack, depth 365 mm

WEIGHT 3,9 kg / 8.38 lbs.



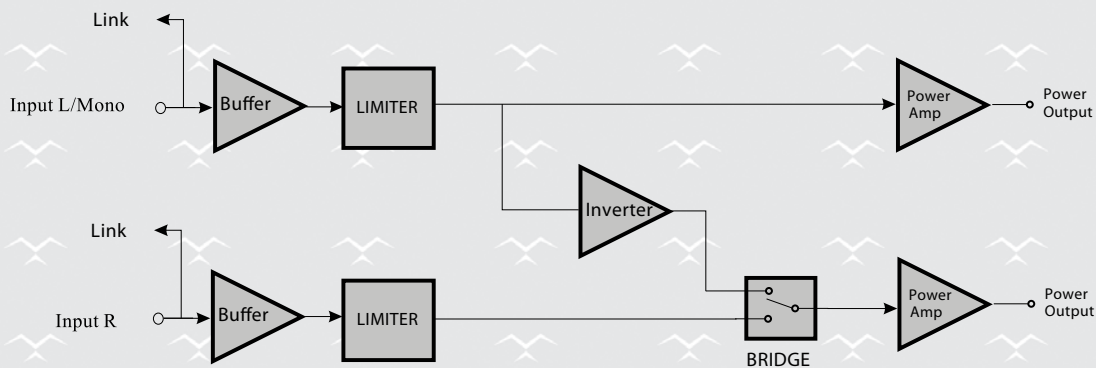
POWER SUPPLY

100/120V/230V/240V 50/60Hz

(Version factory preset inside the equipment)

Markaudio apparatuses are manufactured to be sold and used in the country of purchase, and are factory preset to that country's voltage. Due to homologation issues, the voltage may not be changed.

7. BLOCK DIAGRAM



Product specifications are subject to change without notice.



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