TAKSTAR® 得胜



MG-50A/100A

广播纯后级功放

Broadcast Pure Power Amplifier

使用说明

User Manual

MG-50A/100A 广播纯后级功放

■ 前言

感谢您选购得胜MG-50A/100A广播纯后级功放，为了您能够更好地了解使用本产品，建议您在使用前仔细阅读本说明书。

若存在有疑问或者您有宝贵的建议，可通过拨打得胜官方服务热线400 6828 333或微信扫描二维码关注得胜官方公众号与我们联系。

■ 产品特性

- 标准机箱设计，2U铝合金拉丝面板；
- 人性化的抽手设计，美观实用；
- 70-100V定压输出和4-16Ω定阻输出；
- 4单元LED电平指示，工作状态一目了然；
- 6.35mm插口和XLR插口方便环接；
- 输出短路、过流、过载保护及过热告警、饱和失真告警；
- 具有压限功能，不失真。

■ 适用范围

适用于酒店、商场、校园公共广播等场合

■ 包装清单

主机 1台
电源线 1条
音频转接头（6.35公转莲花母） 1个
说明书 1份

MG-50A/100A 广播纯后级功放

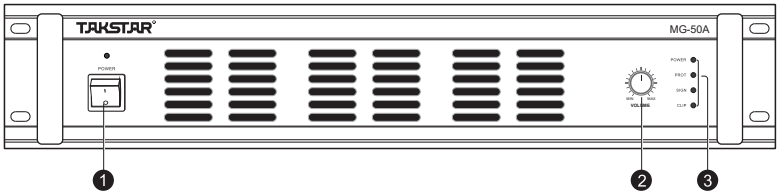
■ 技术参数

型号	MG-50A	MG-100A
额定功率	500W	1000W
频响	20Hz-20kHz	20Hz-20kHz
灵敏度	230mV	230mV
信噪比	>80dB	>80dB
谐波失真	<0.3%	<0.3%
电源规格	AC220V/50Hz	AC220V/50Hz
保险丝	10A	10A
净重（KG）	17.76KG	21.5KG
毛重（KG）	18.24KG	22.78KG
尺寸	482*445*90mm	482*445*90mm

注：以上数据由得胜实验室测试得到，并拥有最终解释权！

■ 功能示意

前面板

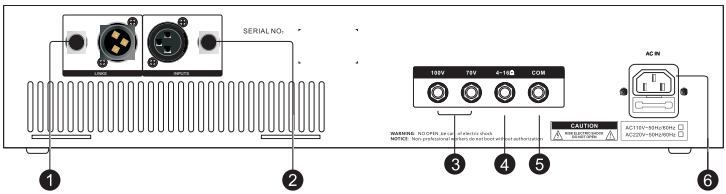


① 电源开关

② 音量调节

③ 信号指示灯

背面板



① 信号输出

② 信号输入

③ 70V、100V定压输出接线端

④ 4-16Ω定阻输出接线端

⑤ 公共地接线端子

⑥ 电源插座

注意：四个输出端子只能使用其中一对。

■ 注意事项

1. 功放不能长久在削峰状态下工作，以免影响机器寿命；

2. 连接喇叭线或插拔信号线时，必须先关闭电源，确保操作安全；

3. 切勿堵塞设备通风口，以维持良好的散热条件；

4. 若发现电源线出现破损，应立即停止使用，防止发生安全隐患；

5. 功放不应放置在以下地方：通风不良区域；多尘、潮湿处；阳光直射处；环境温度高或接近热源的地方；易受振动等地方；

6. 机壳应安全接地，避免发生漏电等危险；

7. 保持通风顺畅。当接通电源并输入信号后，若保护指示灯（PROTECT LED）常亮，表明输出线路存在短路故障，应立即切断电源，待故障排除后再重新通电使用。

警告：

为防止火灾或电击，请勿将本机暴露于雨中或潮湿的处所。



仅适用于海拔2000米以下地区使用



仅适用于非热带气候条件下使用

■ 故障排除

说明	原因	状态	排除方法
(POWER灯)：电源指示灯，机器正常工作状态下此灯应保持常亮，若异常则按如下步骤排除	电源插座供电是否正常	否	给插座供电
		是	检查电源线是否损坏
	检查电源线是否损坏	是	更换电源线
		否	检查机器保险　丝是否损毁
	检查机器保险丝是否损毁	是	更换保险丝
		否	检查保险丝损毁原因（交由专业人员或致电厂家售后）
(SIGNAL)灯： 信号指示灯，机器正常工作状态下，此灯应保持间歇性闪烁，若此灯从不闪烁，则按如下步骤排除故障	听喇叭发声是否正常	是	输入音量开关未调大（此情况为正常状态）
		否	音源是否正常（检查线路/ 更换音源/ 音频线）
	音源是否正常	是	音量开关是否调大
		否	更换音源
	音量开关是否调大	是	音频线是否损坏
		否	调大音量开关
	音频线是否损坏	是	更换音频线
		否	请重新检查其他步骤
(CLIP)灯： 此灯为音频输入饱和失真指示灯，正常状态下，偶尔在音频高音部分会偶尔跳动，若此灯保持长亮时间较长，按如下步骤排除故障	声音不正常	/	此原因是输入音频音量过大导致，调小音量旋钮即可
	声音正常	是	此现象原因是机器内部失真检测电路灵敏度设置过高（不影响正常使用）
		否	检查第一步
(PROTECT)灯： 功放保护指示灯，功放过热、过载、输出短路保护指示灯，开机瞬间会亮起，几秒后自动熄灭，此灯在机器正常状态下保持熄灭，若出现常亮，则按如下步骤排除故障	检查音量开关调节是否过大	否	检查负载线间是否存在短路现象
	检查负载线间是否存在短路现象	是	排除短路点
		否	检查负载中某一个或几个喇叭声音过小或无声
	检查负载中某一个或几个喇叭声音过小或无声	是	替换掉损坏的喇叭
		否	负载总功率是否超过功放功率
声音断断续续（尤其是高音部分）	观察削峰灯是否在声音断掉时间内保持常亮	/	如果灯常亮证明信号输入太大，适当调小音量调节，如果调整后无法达到要求的声音请联系售后服务

■ 安全警示

为避免电击、高温、着火、辐射、爆炸、机械危险以及使用不当等可能造成的人身伤害或财产损失，使用本产品前，请仔细阅读并遵守以下事项：

1. 使用产品时请确认所连设备与本产品是否匹配以及合理调整音量大小，不要在超过产品功率及大音量下长时间使用，以免造成产品异常；

2. 使用中若发现有异常（如冒烟、异味等），请立即关闭电源开关并拔掉电源插头，然后将产品送售后服务网点检修；

3. 消费者若使用电源适配器供电，则应购买配套使用获得CCC认证并满足标准要求的电源适配器；

4. 本产品及附件都应放置在室内干燥通风处，请勿长期存放在潮湿、灰尘多的环境，使用中避免靠近火源、雨淋、进水、过度碰撞、抛掷、振动本机及覆盖通风孔，以免损坏其功能；

5. 使用该产品时需遵守相关安全规定，法律法规明确禁止使用场合请勿使用本产品，以免导致意外事故；

6. 请不要自行拆机改装或维修，以防止出现人身伤害，如有问题或服务需求请联系当地售后服务网点跟进处理。

■ 关于本说明书

本说明书中内容符合截止印刷之日的技术规格。由于得胜公司会不断改进产品，本说明书可能不符合您的特定产品的技术规格。要获取最新版说明书，请访问得胜官网，然后下载说明书文件。技术规格、设备或另售的附件在各个地区可能有所不同，如有问题请与当地得胜销售网点确认。如需更多支持和深层产品信息，请浏览得胜官方网站：https://www.takstar.com

版权所有 ©2025 得胜。得胜、TAKSTAR及其各自标志是得胜公司在中国和/或其他国家/地区的注册商标或商标。所有其它商标均是其各自所有者的财产。

Preface

Dear Customer,

Thank you for purchasing Takstar MG-50A/100A Broadcast Pure Power Amplifier. In order to better understand and use the product, please read this manual carefully.

If you have any questions or suggestions, please contact our local dealer.

Features

- Standard chassis design, with 2U brushed aluminum alloy front panel.
- User-friendly pull handles for both aesthetics and practicality.
- 70-100V constant voltage output and 4-16Ω constant impedance output.
- 4-segment LED level meter, allowing operating status to be clear at a glance.
- 6.35mm jack and XLR connector for convenient loop-through connection.
- Output short circuit, over-current, and overload protection as well as overheating alarm, saturation alarm, and distortion alarm.
- Equipped with compression and limiting function to ensure no distortion.

Applications

Suitable for public address applications in hotels, shopping malls, campuses

Package Contents

1 × Main Unit

1 × Power Cable

1 × Audio Adapter (6.35mm Male to RCA Female)

1 × User Manual

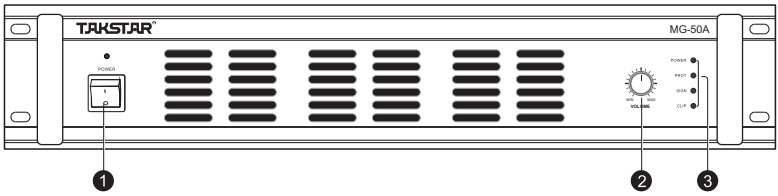
■ Technical Specifications

Model	MG-50A	MG-100A
Rated Power	500W	1000W
Frequency Response	20Hz-20kHz	20Hz-20kHz
Sensitivity	230mV	230mV
Signal-to-Noise Ratio	>80dB	>80dB
Harmonic Distortion	<0.3%	<0.3%
Power Supply	AC220V/50Hz	AC220V/50Hz
Fuse	10A	10A
Net Weight (KG)	17.76KG	21.5KG
Gross Weight (KG)	18.24KG	22.78KG
Dimensions	482*445*90mm	482*445*90mm

Note: The above data are measured by Takstar laboratory which has the final interpretation right!

■ Function Descriptions

Front Panel

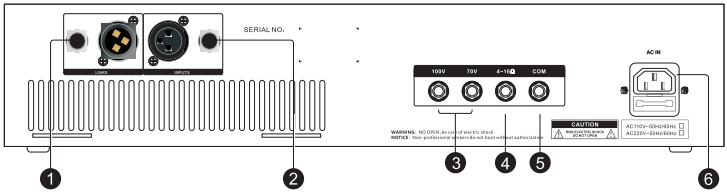


① Power Switch

② Volume Control

③ Signal Indicator Light

Rear Panel



① Signal Output

② Signal Input

③ 70V, 100V Constant Voltage Output Terminals

④ 4-16Ω Constant Impedance Output Terminals

⑤ Common Ground Terminal

⑥ Power Socket

Note: Only one pair of the four output terminals can be used.

■ Cautions

1. The power amplifier should not operate under clipping state for extended periods to avoid compromising its service life.
2. When connecting speaker wires or plugging in/unplugging signal cables, the power must be turned off first to ensure safe operation.
3. Do not block the device's ventilation openings, to maintain good heat dissipation conditions.
4. If the power cable is found to be damaged, stop using the device immediately to prevent potential safety hazards.
5. The power amplifier should not be placed in the following locations: areas with poor ventilation; dusty or humid places; locations exposed to direct sunlight; areas with high ambient temperature or near heat sources; and places prone to vibration, etc.
6. The device chassis must be safely grounded to avoid risks such as electric leakage.
7. Maintain unobstructed ventilation. After the power is turned on and a signal is input, if the PROTECT LED remains on, it indicates a short-circuit fault in the output circuit. Cut off the power immediately, and do not power on or use the device again until the fault is resolved.

WARNING:
To prevent fire or electric shock, do not expose this unit to rain or moist locations.



For safe use only at altitudes below 2000 meters.


For safe use only under non-tropical climatic conditions.

■ Troubleshooting

Description	Cause	Status	Troubleshooting Method
(POWER Light): Power indicator light. This light should remain on when the unit is operating normally. If abnormal, follow the steps below to troubleshoot.	Check if the power supply from the power socket is normal.	No	Supply power to the socket.
		Yes	Check if the power cable is damaged.
	Check if the power cable is damaged.	Yes	Replace the power cable.
		No	Check if the unit's fuse is broken.
	Check if the unit's fuse is broken.	Yes	Replace the fuse.
		No	Check the cause of the fuse breakage (to be handled by professionals or contact the manufacturer's after-sales service).
(SIGNAL) Light: Signal Indicator Light. When the unit is operating normally, this light should keep intermittent blinking. If this light never blinks, follow the steps below to troubleshoot the fault.	Check if the speaker sound is normal.	Yes	Input volume control is not turned up (this is a normal state).
		No	Check if the audio source is normal (check the circuit/ replace the audio source/ audio cable).
	Check if the audio source is normal.	Yes	Check if the volume control is turned up.
		No	Replace the audio source.
	Check if the volume control is turned up.	Yes	Check if the audio cable is damaged.
		No	Turn up the volume control.
	Check if the audio cable is damaged.	Yes	Replace the audio cable.
		No	Please recheck the other steps.

Description	Cause	Status	Troubleshooting Method
(CLIP) Light: This light is an audio input clipping distortion indicator light. Under normal conditions, it will occasionally flicker during the high-frequency parts of the audio. If this light remains on for an extended period, follow the steps below to troubleshoot the fault.	Sound is abnormal.	/	This is caused by excessive input audio volume; simply turn down the volume knob.
	Sound is normal.	Yes	The cause of this phenomenon is that the sensitivity of the unit's internal distortion detection circuit is set too high (does not affect normal operation).
		No	Check step 1.
(PROTECT) Light: This is the power amplifier protection indicator light, serving as an indicator for power amplifier overheating, overload, and output short-circuit protection. It will illuminate momentarily upon power-up and automatically turn off after a few seconds. Under normal operation of the unit, this light remains off. If it remains on continuously, follow the steps below to troubleshoot the fault.	Check if the volume control is set too high.	No	Check if a short-circuit exists between the load lines.
	Check if a short-circuit exists between the load lines.	Yes	Eliminate the short-circuit point.
		No	Check if one or several speakers in the load have low volume or no sound.
	Check if one or several speakers in the load have low volume or no sound.	Yes	Replace the damaged speakers.
		No	Check if the total load power exceeds the amplifier power.
Intermittent sound (especially in the high-frequency parts)	Observe if the CLIP light remains on during the period of sound cut-off.	/	If the light remains on, it indicates that the input signal is too strong. Appropriately turn down the volume control. If the desired sound level cannot be achieved after adjustment, please contact after-sales service.

■ Safety Instructions

To avoid electric shock, overheat, fire, radiation, explosion, mechanical risk and injury or property loss due to improper use, please read and observe the following items before use:

1. Please check if the power of the connected equipment matches with that of this product before operation. Adjust the volume to proper level during operation. Do not operate at over-power or high-volume level for extended time to avoid product malfunction.

2. If there is any abnormality during use (e.g., smoke, strange odor), please kill the power switch and unplug from power source, then send the product to the local after-sales service for repair.

3. Power adapter used, if any, should be approved by CCC certification or similar standards and comply with the power supply requirements.

4. Keep this product and its accessories in a dry and ventilated area. Do not store in a humid or dusty area for extended time. Keep away from fire, rain, liquid intrusion, bumping, throwing, vibrating, or from blocking any ventilation openings, to prevent malfunction.

5. Please abide by safety rules during operation. Do not use the product in places prohibited by laws or regulations to avoid accident.

6. Do not disassemble or repair the product without authorization to avoid injury. If you have any questions or require any services, please contact our local after-sales service.

About This Manual

This manual contains up-to-date technical specifications as of printing. However, specifications contained herein may not conform to your particular product since Takstar is constantly improving its products. Also, specifications, devices or accessories available may vary from region to region. If you have any questions, please contact our local sales outlet. For the latest version/more information, please visit our website: https://www.takstar.com/

Copyright ©2025 TAKSTAR. TAKSTAR, 得胜 and their respective logos are registered trademarks or trademarks of Takstar company in the PRC, and/or other countries. All other trademarks are the property of their respective owners.

注意事项：

1. 本单为保修凭证，请用户妥善保管，如有遗失，恕不保修或退换。
2. 保修期限制：购买之日起十二个月内。
3. 除了不可抗力事件损坏外，由本公司负责，免费维修。
4. 如属保管不善或使用不当造成的损坏，维修点将酌情收费。
5. 擅自拆卸维修者，不予保修。
6. 以上保修条款仅限于中国市场适用（不包含港澳台地区）。

产品服务保证书

姓名：_____ 电话：_____ 地址：_____

商品：_____ 型号：_____ 购买日期：_____ 年___月___日

维修记录栏（由维修员填写）	维修员签名	日期

◆广东得胜电子有限公司 ◆电话：400-6828-333 ◆地址：广东省惠州市博罗县龙溪街道富康一路2号

扫一扫，了解更多产品
Scan for more
product information

广东省电声工程技术研究开发中心
广东得胜电子有限公司制造

地址：广东省惠州市博罗县龙溪街道富康一路2号
服务热线：400 6828 333　传真：0752 6383950
邮箱：xs@takstar.com
网址：www.takstar.com

Guangdong Takstar Electronic Co., Ltd.
Address: No. 2 Fu Kang Yi Rd., Longxi Boluo
Huizhou, Guangdong 516121 China
Tel: 86 752 6383644　Fax: 86 752 6383952
Email: sales@takstar.com
Website: www.takstar.com