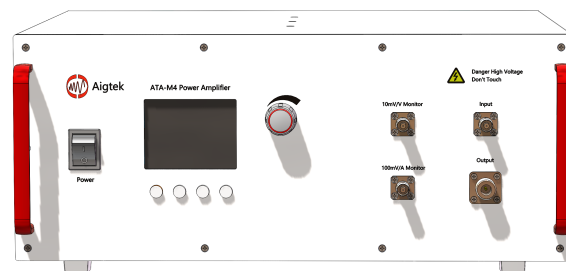


ATA-M4 Power Amplifier

- Maximum Output Voltage: 345Vrms
- Maximum Continuous Output Power: 400VA
- Maximum Pulse Output Power: 1000VA, 10%@1S
- Bandwidth (-3dB): 10kHz~500kHz
- Over Temperature Protection, Over Voltage Protection, Short Circuit Protection, and No Load Protection



INTRODUCTION

The ATA-M4 is an ideal single-channel power amplifier. It delivers a maximum output voltage of 345Vrms, continuous power of 400VA, and pulse power up to 1000VA. It is capable of driving 0~100% of both resistive and non-resistive loads. The output impedance is matched with multiple selectable ranges, allowing users to adjust according to specific testing requirements.

LCD PANEL DISPLAY

The ATA-M4 features an LCD screen that dynamically displays device status and parameters. The user interface is intuitive, clear, and easy to understand, ensuring a user-friendly experience.

INPUT

Single-ended input with a BNC connector; the input signal's valid value must not exceed 1Vrms.

MONITOR

Output Current Monitor: 100mV/A Output Voltage Monitor: 10mV/V

The output monitoring port uses a BNC connector and can be directly connected to an oscilloscope for real-time monitoring.

OUTPUT

The output impedance is matched with multiple selectable voltage ranges. According to testing requirements, the output can be adjusted by setting the desired voltage percentage (0~100%) within the corresponding range. The device is equipped with protection features against over-temperature, over-voltage, short-circuit, and no-load conditions. The LCD panel displays the current protection status, and output can only resume after the fault has been cleared.

Output Impedance Matching Adjustment Ranges

Maximum Continuous Output Power 400VA	Output Impedance (Ω)	9	18	36	77	150	298
	Maximum Output Voltage (Vrms)	60	85	120	175	245	345
	Maximum Output Current (Arms)	6.67	4.72	3.33	2.27	1.63	1.16
Maximum Pulse Output Power 1000VA	Output Impedance (Ω)	3.6	7.2	14.4	30.6	60	119
	Maximum Output Voltage (Vrms)	60	85	120	175	245	345
	Maximum Output Current (Arms)	16.67	11.81	8.33	5.71	4.08	2.90

Note: 1. The valid value of the input signal must not exceed 1Vrms. Adjustments within this limit may be made as needed for actual use.

2. During operation, the device must be used strictly within the specified bandwidth, maximum output voltage, and load limits. Over-



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range and no-load operation are strictly prohibited.

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Specifications

Model	ATA-M4
Bandwidth (-3 dB)	10kHz~500kHz
Maximum Output Voltage	345Vrms
Maximum Continuous Output Power	400VA
Maximum Pulse Output Power	1000VA, 10%@1S
Total Harmonic Distortion (THD)	≤0.5%@50kHz, 42Vrms(85Vrms range)
Input Voltage for Full-Scale Output	1Vrms
Input Impedance	10kΩ
Current Monitoring	100mV/A (±5%@Output, FS)
Voltage Monitoring	10mV/V (±5%@Output, FS)
Output Interface	N-type connector
Protection	Over Temperature Protection, Over Voltage Protection, Short Circuit Protection, and No Load Protection
Signal Ground	Connected to chassis and power line ground

Others

Power Supply Voltage	AC110~240V, 50/60Hz
Operating Temperature	0°C ~ 45°C
Storage Temperature	-20°C ~ 50°C
Working Humidity	≤ 80% RH, non-condensing
Warranty	1 year
Dimensions	440*194*455mm (W*H*D)

Ordering Information

Model	ATA-M4 Single Channel Power Amplifier
Accessories	Power cable*1, BNC cable*3, Output cable*1 set, USB cable*1, fuse*1, user manual, usage guide, product qualification certificate, calibration certificate, and packing list (one copy each).
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