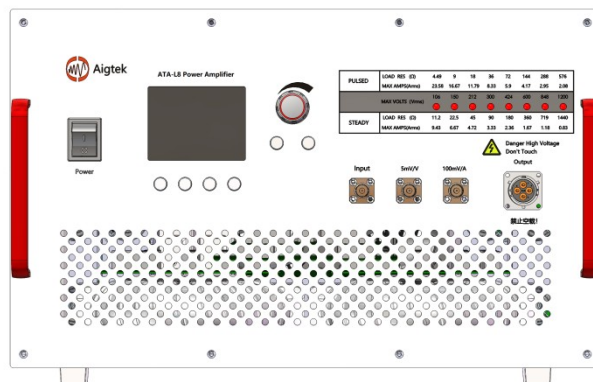


ATA-L8B Power Amplifier

- Maximum Output Voltage: 1200Vrms
- Maximum Continuous Output Power: 1000VA
- Maximum Pulse Output Power: 2500VA, 10%@1S
- Bandwidth (-3dB): 40Hz~150kHz
- Over Temperature Protection, Over Voltage Protection, Over Current Protection, Short Circuit Protection, and No Load Protection



INTRODUCTION

The ATA-L8B is an ideal single-channel power amplifier. It delivers a maximum output voltage of 1200Vrms, continuous power of 1000VA, and pulse power up to 2500VA. 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-L8B 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: 5mV/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 and frequency 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, over-current, 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 1000VA	Output Impedance (Ω)	11.2	22.5	45	90	180	360	719	1440
	Maximum Output Voltage (Vrms)	106	150	212	300	424	600	848	1200
	Maximum Output Current (Arms)	9.43	6.67	4.72	3.33	2.36	1.67	1.18	0.83
Maximum Pulse Output Power 2500VA	Output Impedance (Ω)	4.49	9	18	36	72	144	288	576
	Maximum Output Voltage (Vrms)	106	150	212	300	424	600	848	1200
	Maximum Output Current (Arms)	23.58	16.67	11.79	8.33	5.90	4.17	2.95	2.08

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-range and no-load operation are strictly prohibited.

Specifications

Model	ATA-L8B
Bandwidth (-3 dB)	40Hz~150kHz
Operating Frequency Range	Range 1: 40Hz~20kHz Range 2: 10kHz~150kHz
Maximum Output Voltage	1200Vrms
Maximum Continuous Output Power	1000VA
Maximum Pulse Output Power	2500VA, 10%@1S
Total Harmonic Distortion (THD)	≤1%@1kHz, 53Vrms(106Vrms range)
Input Voltage for Full-Scale Output	1Vrms
Input Impedance	10kΩ
Voltage Monitoring	5mV/V (±5%@Output, FS)
Current Monitoring	100mV/A (±5%@Output, FS)
Output Interface	Aviation connector
Program Control Interface	RS232
Protection	Over Temperature Protection, Over Voltage Protection, Over Current 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

Ordering Information

Model	ATA-L8B Single Channel Power Amplifier
Accessories	Power cable*1, BNC cable*3, Aviation to alligator clip output cable*1 set, RS232 program control cable*1, user manual, usage guide, product qualification certificate, calibration certificate, and packing list (one copy each).
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