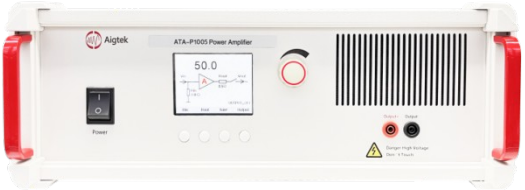
ATA-P1005 Power Amplifier

- Single Channel
- Output Voltage Range: 0V~150V
- Maximum Output Current: 5Ap
- Bandwidth (-3dB): DC~10kHz
- Slew Rate: ⩾6.7 V/μs



INTRODUCTION

The ATA-P1005 is an ideal single-channel power amplifier capable of amplifying both AC and DC signals. It delivers a maximum output power of 750Wp and can drive piezoelectric ceramics, stacked piezoelectric ceramics, open-loop packaged piezoelectric ceramics, as well as piezo-driven devices such as nanopositioning stages. The digitally adjustable voltage gain allows precise tuning, with one-click saving of common settings for convenient and user-friendly operation. It is compatible with mainstream signal generators, delivering excellent signal amplification.

LCD PANEL DISPLAY

The LCD panel display dynamically shows the device status and parameters, offering a clear and intuitive interface.

VOLTAGE GAIN

The voltage gain is digitally adjustable from 0~50x, with two modes: coarse adjustment (1 step) and fine adjustment (0.1 step). Combined with the gain display on the LCD panel, the voltage can be quickly and precisely adjusted as needed.

INPUT

The input uses a BNC connector with an input impedance of 10kΩ.

OUTPUT

The output uses banana sockets, with an output voltage range of 0V~150V and a maximum output current of 5Ap.

MONITORING PORTS

Output Current Monitor: 500mV/A

Output Voltage Monitor: 50mV/V

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

Specifications

Model	ATA-P1005
Number of Channel	1
Output Type	Single-ended Output
Bandwidth (-3 dB)	DC~10kHz
Output Voltage Range	0V~150V
Maximum Output Current	2.5Ap (DC~50Hz) 5Ap (＞50Hz)
Maximum Output Power	750Wp
Fuse	8A/250V
Voltage Gain	x0~50(0.1step/1step)
Load RL Upper Limit	⩾59.5Ω (DC~50Hz) ⩾29.5Ω (>50Hz)
Input Impedance	10kΩ
Output Impedance	0.5Ω
Input Amplitude	0~10Vp-pMAX
Output Voltage Error	≤ ±3% FS @ 1 kHz
Voltage Monitoring	50mV/V(±5%@Output,FS)
Current Monitoring	500mV/A(±5%@Output,FS)
Slew Rate	≥6.7V/μs
Output Voltage Zero Drift	≤ ±0.3V
Output Interface	4mm Banana socket
Protection	Over Current Protection, Over Voltage Protection, and Over Temperature Protection
Signal Ground	Connected to chassis and power line ground

Others

Power Supply Voltage	AC110~240V, 50/60Hz
Operating Temperature	0℃ ~ 45℃
Storage Temperature	-20℃ ~ 50℃
Working Humidity	≤ 80% RH, non-condensing
Warranty	1 year
Dimensions	442*164*574mm (W*H*D)

Ordering Information

Model	ATA-P1005 Single Channel Power Amplifier
Accessories	Power cable*1, BNC cable*3, red-black output cable*1 set, USB cable*1, fuse*1, user manual, usage guide, product qualification certificate, calibration certificate, and packing list (one copy each).
Contact Us	+86-29-88865020