

ATA-P2010 Power Amplifier

- Single Channel
- Output Voltage Range: -20V~130V
- Maximum Output Current: 10Ap
- Bandwidth (-3dB): DC~20kHz
- Slew Rate: $\geq 11.5 \text{ V}/\mu\text{s}$



INTRODUCTION

The ATA-P2010 is an ideal single-channel power amplifier capable of amplifying both AC and DC signals. It delivers a maximum output power of 1300Wp 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 10k Ω .

OUTPUT

The output uses banana sockets, with an output voltage range of -20V~130V and a maximum output current of 10Ap.

MONITORING PORTS

Output Current Monitor: 250mV/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-P2010
Number of Channel	1
Output Type	Single-ended Output
Bandwidth (-3 dB)	DC~20kHz
Output Voltage Range	-20V~130V
Maximum Output Current	5Ap (DC~50Hz) 10Ap (>50Hz)
Maximum Output Power	1300Wp
Fuse	15A/250V
Voltage Gain	x0~50(0.1step/1step)
Load RL Upper Limit	$\geq 25.75\Omega$ (DC~50Hz) $\geq 12.75\Omega$ (>50Hz)
Input Impedance	10k Ω
Output Impedance	0.25 Ω
Input Amplitude	0~10Vp-pMAX
Output Voltage Error	$\leq \pm 3\%$ FS @ 1 kHz
Voltage Monitoring	50mV/V($\pm 5\%$ @Output,FS)
Current Monitoring	250mV/A($\pm 5\%$ @Output,FS)
Slew Rate	$\geq 11.5\text{V}/\mu\text{s}$
Output Voltage Zero Drift	$\leq \pm 0.3\text{V}$
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°C ~ 45°C
Storage Temperature	-20°C ~ 50°C
Working Humidity	$\leq 80\%$ RH, non-condensing
Warranty	1 year
Dimensions	442*164*574mm (W*H*D)

Ordering Information

Model	ATA-P2010 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).
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