

ATA-2032 High Voltage Amplifier

- Dual Channel
- Maximum Output Voltage: 300 Vp-p (± 150 Vp)
- Maximum Output Current: 120mA_p
- Bandwidth (-3dB): DC~500kHz
- Slew Rate: ≥ 334 V/ μ s



INTRODUCTION

The ATA-2032 is an ideal dual-channel high-voltage amplifier capable of amplifying both AC and DC signals. It delivers a maximum output of 300 Vp-p (± 150 Vp), suitable for driving high-voltage loads. The digitally adjustable voltage gain allows precise tuning, with one-click saving of common settings, offering a simple and user-friendly operation. It is compatible with mainstream signal generators for seamless 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 LCD panel display, it enables quick and precise adjustment to the desired voltage value.

INPUT

The input uses a BNC interface with selectable impedance of 50 Ω or 5k Ω , perfectly matching both high and low impedance signal sources.

OUTPUT

The output uses banana sockets, with a maximum output voltage of 300 Vp-p (± 150 Vp) and a maximum output current of 120 mA_p.

MONITORING PORTS

10mV/V Monitor: This port voltage is 1/100 of the output port voltage. The monitoring port uses a BNC connector and can be directly connected to an oscilloscope for real-time monitoring of the output voltage.

10V/A Monitor: The monitoring port voltage is 10 times the output current. The monitoring port uses a BNC connector and can be directly connected to an oscilloscope for real-time monitoring of the output current.

Specifications

Model	ATA-2032
Number of Channel	2
Output Type	Single-ended Output
Bandwidth (-3 dB)	DC~500kHz
Maximum Output Voltage	300Vp-p (± 150 Vp)
Maximum Output Current	60mA _p (DC~50Hz) 120mA _p (> 50 Hz)
Maximum Output Power	18W _p
Voltage Gain	x0~50 (0.1step/1step)
Load RL Upper Limit	$\geq 2.45k\Omega$ (DC~50Hz) $\geq 1.2k\Omega$ (> 50 Hz)
Output Impedance	50 Ω /2.5k Ω
Slew Rate	$\geq 334V/\mu s$
Input Impedance	50 Ω / 5k Ω
Input Amplitude	0~10 Vp-p MAX
Output Voltage Error	$\leq \pm 3\%$ FS @ 1 kHz
Voltage Monitoring	10mV/V($\pm 5\%$ @Output,FS)
Current Monitoring	10V/A($\pm 5\%$ @Output,FS)
Total Harmonic Distortion (THD)	$\leq 0.1\%$ @1kHz, 100Vp-p
Output Voltage Drift	$\leq \pm 0.3V$
Signal-to-Noise Ratio	≥ 80 dB
Output Interface	4mm Banana socket
Fuse	2A/250V
Protection	Over Current Protection
Signal Ground	Connected to chassis and power line ground

Others

Power Supply Voltage	AC220V $\pm 10\%$, 50Hz
Operating Temperature	0°C ~ 45°C
Storage Temperature	-20°C ~ 50°C
Working Humidity	$\leq 80\%$ RH, non-condensing
Warranty	1 year
Dimensions	366*164*369mm (W*H*D)

Ordering Information

Model	ATA-2032 Dual Channel High Voltage Amplifier
Accessories	Power cable*1, BNC cable*6, red-black output cable*2 sets, USB cable*1, fuse*1, user manual, usage guide, product qualification certificate, calibration certificate, and packing list (one copy each).
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