

ATA-1220E Wide Band Amplifier

- Differential Output
- Maximum Output Voltage: 60 Vp-p (± 30 Vp)
- Maximum Output Current: 1Ap
- Bandwidth (-3dB): DC~21MHz
- Slew Rate: $\geq 2798\text{V}/\mu\text{s}$



INTRODUCTION

The ATA-1220E is a differential channel wide-band amplifier capable of amplifying both AC and DC signals. It features a maximum output voltage of 60 Vp-p (± 30 Vp) and a maximum output current of 1 Ap (>50 Hz). The voltage gain is digitally adjustable, and settings can be saved with a single button press, offering convenient and straightforward operation. It is perfectly compatible with mainstream signal generators, enabling seamless signal amplification.

LCD PANEL DISPLAY

The ATA-1220E is equipped with an LCD panel that dynamically displays device status and parameters. The interface is intuitive, clear, and easy to use.

VOLTAGE GAIN

Voltage gain digitally adjustable from 0 to 26 dB with 0.5 dB steps. 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 1M Ω , perfectly matching both high and low impedance signal sources.

OUTPUT

The output uses a BNC interface with a maximum output voltage of 60 Vp-p (± 30 Vp) and a maximum output current of 1 Ap.

Specifications

Model	ATA-1220E
Output Type	Differential Output
Bandwidth (-3 dB)	DC~21MHz
Maximum Output Voltage	60Vp-p (± 30 Vp)
Maximum Output Current	500mA _p (DC~50Hz) 1A _p (> 50Hz)
Maximum Output Power	30W _p
Fuse	3A/250V
Voltage Gain	0~26dB (0.5dB step)
Load RL Upper Limit	$\geq 55\Omega$ (DC~50Hz) $\geq 25\Omega$ (> 50Hz)
Output Impedance	5 Ω / 100 Ω (customizable)
Slew Rate	≥ 2798 V/ μ s
Input Impedance	50 Ω / 1M Ω
Input Amplitude	0~10 Vp-p MAX
Output Voltage Error	$\leq \pm 3\%$ FS @ 1 kHz
Total Harmonic Distortion (THD)	$\leq 0.1\%$ @1kHz,30Vp-p
Output Voltage Drift	$\leq \pm 0.1$ V
Signal-to-Noise Ratio	≥ 80 dB
Output Interface	BNC
Protection	Over Current and Short Circuit Protection
Signal Ground	Connected to chassis and power line ground

Others

Power Supply Voltage	AC110/220V,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	330*149*401mm(W*H*D)

Ordering Information

Model	ATA-1220E Wide Band Amplifier
Accessories	Power cable*1, BNC cable*3, BNC-to-alligator clip cable*2, USB cable*1, fuse*1, user manual, usage guide, product qualification certificate, calibration certificate, and packing list (one copy each).
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