

ATA-3090C Power Amplifier

- Maximum Output Voltage: 100 Vp-p (± 50 Vp)
- Maximum Output Current: 20Ap
- Bandwidth (-3dB): DC~120kHz
- Slew Rate: ≥ 26.6 V/ μ s



INTRODUCTION

The ATA-3090C is an ideal power amplifier capable of amplifying both AC and DC signals. With a maximum output power of 1000 Wp, it can drive high-power loads. The gain is digitally adjustable, with one-click saving of commonly used settings, providing a convenient and user-friendly operation. It is compatible with mainstream signal generators, ensuring seamless signal amplification. The wide-range power supply accommodates different regional power standards worldwide.

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 0~30x, 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 interface uses a BNC interface, supporting input waveform amplitudes from 0~10 Vp-p MAX. The input impedance has two selectable options: 50 Ω and 100k Ω , perfectly matching both high and low-impedance signal sources.

OUTPUT

Output Interface: Banana socket, with a maximum output voltage of 100 Vp-p (± 50 Vp), and a maximum output current of 20 Ap.

Applications

Ultrasonic Testing

Electromagnetic Testing

Battery Testing

Various Semiconductor Testing



Specifications

Model	ATA-3090C
Output Type	Single-ended Output
Bandwidth (-3 dB)	DC~120kHz
Maximum Output Voltage	100Vp-p (± 50 Vp)
Maximum Output Current	10Ap (DC~50Hz) 20Ap (> 50 Hz)
Maximum Output Power	1000Wp
Fuse	10A/250V
Voltage Gain	$\times 0 \sim 30$ (0.1step/1step)
Load RL Upper Limit	$\geq 4.9\Omega$ (DC~50Hz) $\geq 2.4\Omega$ (> 50 Hz)
DC Bias Adjustment	± 50 V(0.1V step/1V step)
Output Impedance	0.1 Ω
Input Impedance	50 Ω / 100k Ω
Input Amplitude	0~10 Vp-p MAX
Output Voltage Error	$\leq \pm 3\%$ FS @ 1 kHz
Voltage Monitoring	20mV/V($\pm 5\%$ @Output,FS)
Current Monitoring	0.05V/A($\pm 5\%$ @Output,FS)
Slew Rate	≥ 26.6 V/ μ s
Total Harmonic Distortion (THD)	$\leq 0.1\%$ @1kHz, 100Vp-p
Output Voltage Drift	$\leq \pm 0.05$ V
Ripple	≤ 0.01 Vrms
Output Interface	4mm Banana socket
Protection	Short Circuit 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 $^{\circ}$ C ~ 45 $^{\circ}$ C
Storage Temperature	-20 $^{\circ}$ C ~ 50 $^{\circ}$ C
Working Humidity	$\leq 80\%$ RH, non-condensing
Warranty	1 year
Dimensions	440*149*535mm (W*H*D)

Ordering Information

Model	ATA-3090C 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