ATA-4012C High Voltage Power Amplifier

- Maximum Output Voltage: 160Vp-p (±80 Vp)
- Maximum Output Power: 282.4Wp
- Bandwidth (-3dB): DC~1.2MHz
- Slew Rate: ⩾426V/μs

INTRODUCTION

The ATA-4012C is an ideal single-channel high-voltage power amplifier capable of amplifying both AC and DC signals. The device delivers a maximum output voltage of 160Vp-p (±80Vp) and a maximum output power of 282.4 Wp, making it suitable for driving high-voltage power 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.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 x0 to x50, 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 50Ω or 100kΩ, perfectly matching both high and low impedance signal sources.

OUTPUT

The output uses a BNC interface with a maximum output voltage of 160 Vp-p (±80 Vp) and a maximum output current of 3.53 Ap.

Applications

Nondestructive Testing (NDT)

Soft Magnetic Material Testing

Transformer Testing

Various Semiconductor Testing

Specifications

Model	ATA-4012C
Output Type	Single-ended Output
Bandwidth (-3 dB)	DC~1.2MHz
Maximum Output Voltage	160Vp-p(±80Vp)
Maximum Output Current	1.25Ap (DC~50Hz) 3.53Ap, 2.5Arms (>50Hz)
Maximum Output Power	282.4Wp
Fuse	8A/250V
Voltage Gain	x0~50 (0.1step/1step)
Load RL Upper Limit	≥ 63.75Ω (DC~50 Hz) ⩾ 22.4Ω (>50Hz)
Output Impedance	0.25Ω+0.6μH
Slew Rate	≥ 426V/μs
DC Bias Adjustment	±75V (0.1V step/1V step)
Input Impedance	50Ω/100kΩ
Input Amplitude	0~10 Vp-p MAX
Output Voltage Error	≤ ±3% FS @ 1 kHz
Voltage Monitoring	100:1(±5%@Output,FS)
Total Harmonic Distortion (THD)	≤ 0.1%@1kHz,100Vp-p
Output Voltage Drift	≤ ±0.02V
Ripple	≤ 0.01Vrms
Output Interface	BNC
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℃ ~ 45℃
Storage Temperature	-20℃ ~ 50℃
Working Humidity	≤ 80% RH, non-condensing
Warranty	1 year
Dimensions	440*149*454mm (W*H*D)

Ordering Information

Model	ATA-4012C High Voltage Power Amplifier
Accessories	Power cable*1, BNC cable*2, BNC-to-alligator clip cable*1, USB cable*1, fuse*1, user manual, usage guide, product qualification certificate, calibration certificate, and packing list (one copy each).
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