

ATA-7000 Series High Voltage Amplifier

Maximum output voltage 6kVp-p

Voltage gain adjustable by numerical control (1step)

Over current and over temperature protection



Technical Index

Bandwidth (-3dB) up to DC~5KHz

Output voltage up to 6kVp-p (± 3 kVp)

Maximum output current 30mA_p

Introduction

ATA-7000 series is an ideal high voltage amplifier that can amplify AC and DC signals. The Single output is 6kVp-p (± 3 kVp) high voltage, which can drive high-voltage load. The voltage gain can be adjusted by numerical control, and the common settings can be saved by one key.

Model	ATA-7010	ATA-7015	ATA-7020	ATA-7025	ATA-7030
Output form	Single output	Single output	Single output	Single output	Single output
Bandwidth (-3dB)	DC~100KHz	DC~80KHz	DC~30KHz	DC~10KHz	DC~5KHz
Maximum output voltage	2kVp-p (± 1 kVp)	3kVp-p (± 1.5 kVp)	4kVp-p (± 2 kVp)	5kVp-p (± 2.5 kVp)	6kVp-p (± 3 kVp)
Maximum output current	40mA _p	40mA _p	30mA _p	30mA _p	30mA _p
Maximum output power	40W _p	60W _p	60W _p	75W _p	90W _p
Fuse	3A/250V	4A/250V	4A/250V	4A/250V	4A/250V
Voltage gain	x0~1000 (1 step)				
Load R _L upper limit	≥ 25 k Ω	≥ 37.5 k Ω	≥ 66.67 k Ω	≥ 83.3 k Ω	≥ 100 k Ω
Output resistance	500 Ω	500 Ω	1k Ω	1.5k Ω	1.5k Ω
Slew Rate	444V/ μ s	533V/ μ s	266V/ μ s	111V/ μ s	66.6V/ μ s
Output voltage error	$\leq \pm 1\%$ @ (DC,1kV)	$\leq \pm 1\%$ @ (DC,1.5kV)	$\leq \pm 1\%$ @ (DC,2kV)	$\leq \pm 1\%$ @ (DC,2.5kV)	$\leq \pm 1\%$ @ (DC,3kV)
Input resistance	10k Ω				
Input amplitude	0~10Vp-pMAX				
Total harmonic distortion (THD)	$\leq 1\%$ @1kHz, 1kVp-p				
Output voltage Zero-point drift	≤ 1 V				
Output Connector	SHV RF connector				



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Protection	Overcurrent protection, over-temperature protection
Signal Ground	It is connected with the grounding of the shell and the power line
Supply voltage	AC220V±10%, 50Hz
Operating temperature	0°C~45°C
Storage temperature	-20°C~50°C
Humidity	≤80%RH, No condensation
Size (W * H * D)	440*163*565mm

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