

## ATA-3000 Series Power Amplifier

High current, high power

Input and output resistance adjustable

The voltage gain is roughly adjusted by 1 times of step and fine by 0.1 times of step



### Technical Index

Bandwidth (-3dB) up to DC~100kHz

Maximum output power 810W

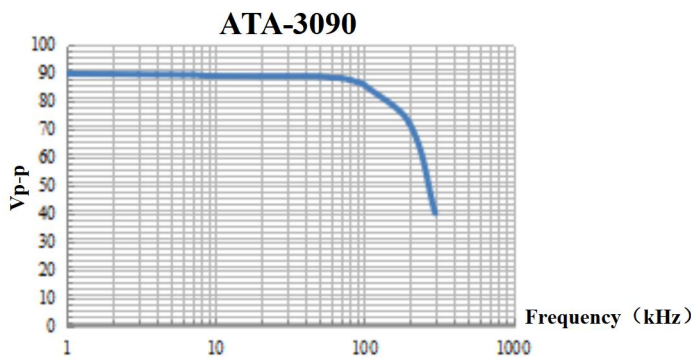
Adjustable voltage gain

### Introduction

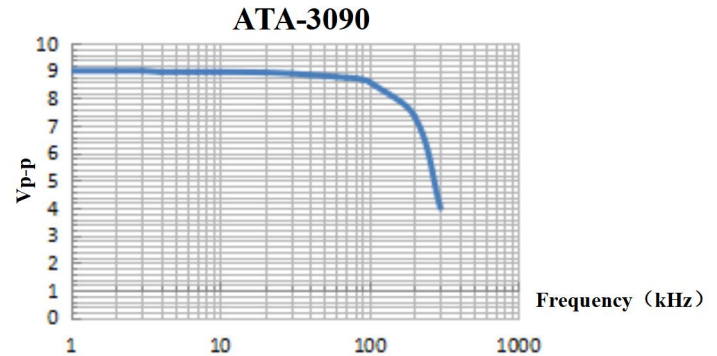
ATA-3000 series power amplifier is an ideal power amplifier that can amplify AC and DC signals. The maximum output power is 810Wp, which can drive power load. The voltage gain can be adjusted by numerical control, and the common settings can be saved by one key. It can be used with mainstream signal generator to realize perfect signal amplification.

Model	ATA-3040	ATA-3080	ATA-3090
Output form	Single output	Differential output	Single output
Bandwidth (-3dB)	DC~100kHz	DC~100kHz	DC~100kHz
Maximum output voltage	90Vp-p ( $\pm 45Vp$ )	180Vp-p ( $\pm 90Vp$ )	90Vp-p ( $\pm 45Vp$ )
Maximum output current	8Ap	8Ap	18Ap
Maximum output power	360Wp	720Wp	810Wp
Fuse	8A/250V	8A/250V	10A/250V
Voltage gain	x0~30 (0.1 step)	x0~60 (0.1 step)	x0~30 (0.1 step)
Load $R_L$ upper limit	$\geq 5.6\Omega$	$\geq 11.25\Omega$	$\geq 2.5\Omega$
Output resistance	0.1 $\Omega$ /50 $\Omega$ (Customizable)	0.5 $\Omega$ /100 $\Omega$ (Customizable)	0.1 $\Omega$ /50 $\Omega$ (Customizable)
Slew Rate	30V/ $\mu s$	60V/ $\mu s$	30V/ $\mu s$
Input resistance	50 $\Omega$ / 5k $\Omega$		
Input amplitude	0~10Vp-pMAX		
Output voltage error	$\leq \pm 3\%FS@1kHz$		
Total harmonic distortion (THD)	$\leq 0.1\%@1kHz, 90Vp-p$		
Output voltage zero-point drift	$\leq 0.3V$		
Signal-noise ratio(SNR)	$\geq 80dB$		
Output Connector	4mm Banana socket		
Protection	Overcurrent protection		
Signal Ground	It is connected with the grounding of the shell and the power line		
Supply voltage	AC220V $\pm 10\%$ , 50Hz		
Operating temperature	0 $^{\circ}C$ ~45 $^{\circ}C$		
Storage temperature	-20 $^{\circ}C$ ~50 $^{\circ}C$		

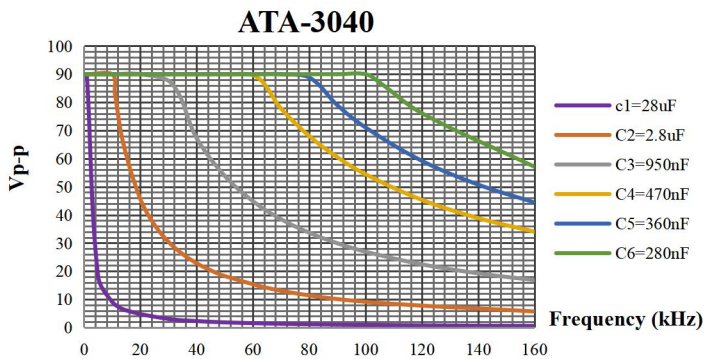
Humidity	≤80%RH, no condensation
Size (W * H * D)	440*163*470mm



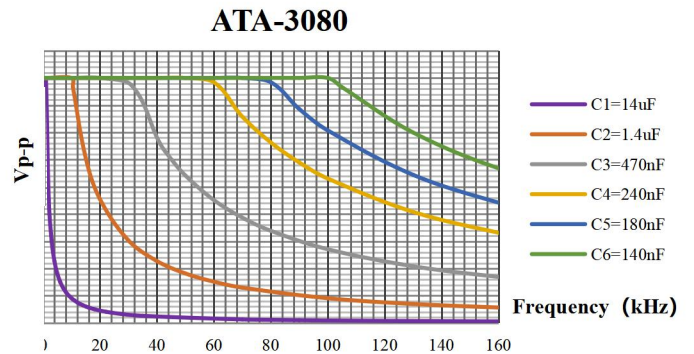
(1)Amplitude-frequency characteristic  
(Maximum output voltageVp-p)



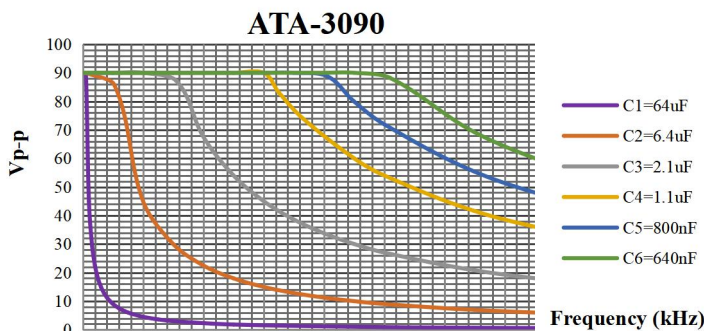
(2)Small signal amplitude-frequency characteristic



(3)ATA-3040 Capacitive loads curve



(4)ATA-3080 Capacitive loads curve



(5)ATA-3090 Capacitive loads curve

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