

ATA-P Series Power Amplifier

Single channel
 Voltage gain numerically adjustable
 Over-current protection, over-voltage protection,
 over-temperature protection



Technical Index

Output power 1300Wp
 Output power current 10Ap
 Maximum output voltage -20V~150V
 Bandwidth (-3dB) DC~20kHz

Introduction

The ATA-P series is the ideal single-channel power amplifier for amplifying AC/DC signals. It can drive piezoelectric brake products such as PZT, stacked type PZT, open-loop packaged PZT and nano-positioning table. One key to save the settings, providing a convenient and concise choice of operations. It can be used with the mainstream signal generators to realize lossless signal amplification.

| Model | ATA-P0102 | ATA-P1005 | ATA-P2010 |
|------------------------------------|---|-----------------------------|------------------------------|
| Number of channels | 1 | 1 | 1 |
| Form of output | Single output | Single output | Single output |
| Bandwidth (-3dB) | DC~1kHz | DC~10kHz | DC~20kHz |
| Maximum output voltage | 0V~150V | 0V~150V | -20V~130V |
| Maximum output current | 1.25Ap (DC~50Hz) | 2.5Ap (DC~50Hz) | 5Ap (DC~50Hz) |
| | 2.5Ap (> 50Hz) | 5Ap (> 50Hz) | 10Ap (> 50Hz) |
| Maximum output power | 375Wp | 750Wp | 1300Wp |
| Fuse | 8A/250V | 8A/250V | 15A/250V |
| Upper limit of load R_L | $\geq 119\Omega$ (DC~50Hz) | $\geq 59.5\Omega$ (DC~50Hz) | $\geq 25.75\Omega$ (DC~50Hz) |
| | $\geq 59\Omega$ (> 50Hz) | $\geq 29.5\Omega$ (> 50Hz) | $\geq 12.75\Omega$ (> 50Hz) |
| Voltage gain | x0~50 (0.1 step/1 step) | x0~50 (0.1 step/1 step) | x0~50 (0.1 step/1 step) |
| Input resistance | 10k Ω | 10k Ω | 10k Ω |
| Output resistance | 1 Ω | 0.5 Ω | 0.25 Ω |
| Slew rate | $\geq 0.67V/\mu s$ | $\geq 6.7V/\mu s$ | $\geq 11.5V/\mu s$ |
| Current monitor | 1V/A | 0.5V/A | 0.25V/A |
| Output voltage error | 50mV/V | | |
| Input amplitude | 0~10Vp-pMAX | | |
| Total harmonic distortion (THD) | $\leq \pm 3\%FS@1kHz$ | | |
| Zero-point drift of output voltage | $\leq \pm 0.3V$ | | |
| Output connector | 4mm Banana socket | | |
| Protection | Over current protection, over voltage protection, over temperature protection | | |

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|-----------------------|--|
| Signal ground | It is connected with the grounding of the shell and the power line |
| Supply voltage | AC110~240V, 50/60Hz |
| Operating temperature | 0°C ~ 45°C |
| Storage temperature | -20°C ~ 50°C |
| Humidity | ≤80%RH,no condensation |
| Size (w * h * d) | 440*163*565mm |

