

ATA-2022B High Voltage Power Amplifier

Dual channel

Bandwidth (-3dB) DC~1MHz

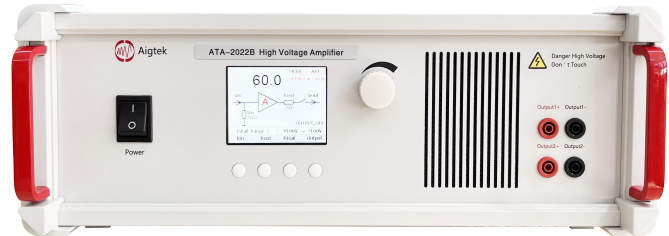
Maximum output voltage 200Vp-p (± 100 Vp)

Maximum output current 500mA_p

Variable voltage rail

Three ranges adjustable of DC offset

Operating voltage AC110~240V,50/60Hz



Description

ATA-2022B is a dual-channel high voltage amplifier capable of amplifying AC/DC signals. Maximum output 200Vp-p (± 100 Vp) high voltage, the DC offset voltage can be adjusted in three ranges, and the maximum output can be ± 160 V with continuous adjust, which can realize the demand of asymmetric signal output and drive the high-voltage load. 2 levels are switchable for the input and output resistance, the voltage gain can be adjusted by numerical control, and the setting parameters can be saved automatically. It can be used with signal generator to realize the lossless amplification of the signal. The program control function is optional.

Voltage Gain

Voltage gain 0-60 times continuously adjustable, 1 step for coarse tuning, 0.1 step for fine tuning. Combined with the LCD display of voltage gain, the required voltage value could be adjusted quickly.

LCD Display

ATA-2022B adopts LCD screen to display the equipment status and parameters. The operation interface is simple and easy to understand.

Monitor

20mV/V Monitor: the port voltage is 1/50 of the Output port, BNC connector for the Monitor port, which can be connected to the oscilloscope directly to achieve real time monitoring of the output voltage.

2V/A Monitor: the port current is twice of the Output port, BNC connector for the Monitor port, which can be connected to the oscilloscope directly to achieve real time monitoring of the output current.

Output

Banana connector for the port of Output

Maximum output voltage 200Vp-p(± 100 Vp)

Maximum output current 500mA_p

Specification

Model	ATA-2022B
No. Of Channel	2
Form of Output	Single Ended Output
Bandwidth (-3dB)	DC~1MHz
Max. Output Voltage	200Vp-p
Range of Output Voltage	Range1:+40V~-160V
	Range2:+100V~-100V
	Range3:+160V~-40V
Max. Output Current	250mA _p (DC~50Hz)
	500mA _p (> 50Hz)
Max. Output Power	50Wp
Fuse	2A/250V
Voltage Gain	x0~60 (0.1 step/1 step)
Upper Limit of Load R_L	≥395Ω (DC~50Hz)
	≥195Ω (> 50Hz)
DC Offset	±160V (0.1V step/1V step)
Voltage Range of DC Offset	Range1:+40V~-160V
	Range2:+100V~-100V
	Range3:+160V~-40V
Output Resistance	5Ω /50Ω ((customizable)
Input Resistance	50Ω / 10kΩ
Input Amplitude	0~10Vp-pMAX
Output Voltage Error	≤±3%FS@1kHz
Voltage Monitor	20mV/V
Current Monitor	2V/A
Slew Rate	≥445V/μs
THD	≤0.1%@1kHz, 100Vp-p
Zero Drift of Output Voltage	≤±0.1V
Signal-noise Ratio (SNR)	≥80dB
Output Connector	4mm banana connector
Protection	Over current protection
Signal Ground	Connected to the case and power line

Other

Supply Voltage:	AC110~240V,50/60Hz
Operating Temperature:	0°C ~ 45°C
Storage Temperature:	-20°C ~ 50°C
Humidity:	≤80% RH, no condensation
Warranty:	3 years
Size :	365*163*365mm (w * h * d)

Ordering Information

Model:	ATA-2022B
Description:	DC~1MHz (-3dB) dual channel high voltage power amplifier
Accessories:	Power Cord*1 pc, BNC Cable*3 pcs, Output Cable*1 set, Safety Tube *1 pc, Product Instruction Manual, Certificate of Conformity, Packing List, Ex-factory Test Report
Contact:	+86-029-88865020

