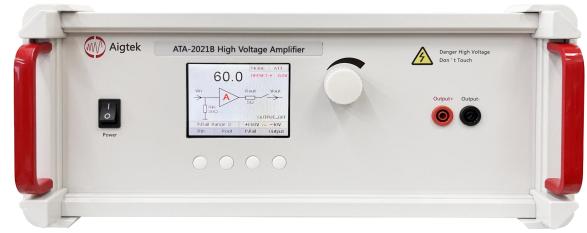


ATA-2021B High Voltage Power Amplifier

- Single channel
- Maximum output voltage 200Vp-p (± 100 Vp)
- Maximum output current 500mA_p
- Bandwidth (-3dB) DC~1MHz
- Slew rate ≥ 445 V/ μ s



Description

ATA-2021B is a single-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.

Input

BNC connector for the port of Input, input resistance 50 Ω , 10k Ω optional, which can match the mainstream signal generator brands on the market.

LCD Display

ATA-2021B adopts LCD screen to display the equipment status and parameters. The operation interface is simple and easy to understand.

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.

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-2021B	Input Amplitude	0~10Vp-pMAX
No. Of Channel	1	Output Voltage Error	≤±3%FS@1kHz
Form of Output	Single-ended output	Voltage Monitor	20mV/V
Bandwidth (-3dB)	DC~1MHz	Current Monitor	2V/A
Max. Output Voltage	200Vp-p	Slew Rate	≥445V/μs
Range of Output Voltage	Range1: +40V~-160V	THD	≤0.1%@1kHz, 100Vp-p
	Range2: +100V~-100V	Zero Drift of Output Voltage	≤±0.1V
	Range3: +160V~-40V	Signal-noise ratio (SNR)	≥80dB
Max. Output Power	50Wp	Output Connector	4mm banana connector
Fuse	2A/250V	Protection	Over current protection
Voltage Gain	x0~60 (0.1 step/1 step)	Signal Ground	Connected to the case and power line
Upper Limit of Load R_L	≥395Ω (DC~50Hz)	Supply Voltage	110V~250VAC, 50Hz/60Hz
	≥195Ω (> 50Hz)	Operating Temperature	0°C ~ 45°C
DC Offset	±160V (0.1V step/1V step)	Storage Temperature	-20°C ~ 50°C
Voltage Range of DC Offset	Range1: +40V~-160V	Humidity	≤80% RH, no condensation
	Range2: +100V~-100V	Size	365*163*365mm (w * h * d)
	Range3: +160V~-40V		
Output Resistance	5Ω /50Ω (customizable)		
Input Resistance	50Ω / 10kΩ		

Ordering Information

Model:	ATA-2021B
Description:	DC~1MHz (-3dB) single 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
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