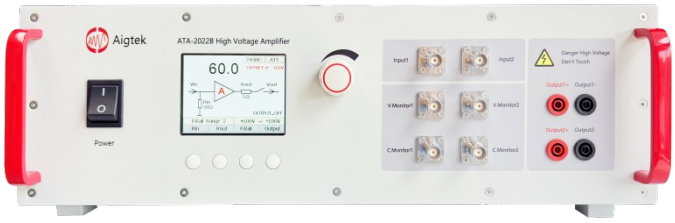
ATA-2022B High Voltage Amplifier

- Dual Channel
- Bandwidth (-3dB): DC~1 MHz
- Maximum Output Voltage: 200Vp-p
- Maximum Output Current: 500mAp
- The output voltage rail is adjustable in three levels.
- The DC bias voltage is adjustable in three levels.
- Operating Voltage: AC110~240V, 50/60Hz



INTRODUCTION

The ATA-2022B is a dual-channel high-voltage amplifier capable of amplifying both AC and DC signals. The maximum output voltage is 200 Vp-p, with the output voltage range adjustable according to the output rail. The DC bias voltage can be adjusted in three levels, with continuous variation allowing a maximum output of ±160V, enabling the generation of asymmetric signals to drive high-voltage loads. The input and output impedance can be switched between two levels. The voltage gain is digitally adjustable, with parameters automatically saved. The device features program control functionality, offering simple and convenient operation. It can be used with signal generators for seamless signal amplification. The wide-range power supply accommodates different regional power standards worldwide.

LCD PANEL DISPLAY

The ATA-2022B features an LCD screen for dynamic display of device status and parameters. Prompts in different colors make human - machine interaction more efficient, and the operation interface is clear at a glance, simple and easy to understand.

VOLTAGE GAIN

The voltage gain is digitally adjustable from x0 to x60, with two modes: coarse adjustment (1 step) and fine adjustment (0.1 step). Combined with the LCD panel display, it enables quick and precise adjustment to the desired voltage value.

MONITORING PORTS

20mV/V Monitor: The monitoring port voltage is 1/50 of the output port voltage. The monitoring port uses a BNC connector, allowing direct connection to an oscilloscope for real-time monitoring of the output voltage.

2V/A Monitor: The monitoring port voltage is 2 times the output current. The monitoring port uses a BNC connector and can be directly connected to an oscilloscope for real-time monitoring of the output current.

OUTPUT

The output uses banana sockets, with a maximum output voltage of 200 Vp-p and a maximum output current of 500 mAp.

The output voltage rail can be adjusted across three levels.

Specifications

Model	ATA-2022B
Number of Channel	2
Output Type	Single-ended Output
Bandwidth (-3 dB)	DC~1MHz
Maximum Output Voltage	200Vp-p (±100Vp)
Output voltage range	Range1:+40V~-160V Range2:+100V~-100V Range3:+160V~-40V
Maximum Output Current	250mAp(DC~50Hz) 500mAp(＞50Hz)
Maximum Output Power	50Wp
Fuse	5A/250V
Voltage Gain	x0~60 (0.1step/1step)
Load RL Upper Limit	≥ 395Ω (DC~50 Hz) ≥ 195Ω (＞50Hz)
DC Bias Adjustment	±160V (0.1V step/1V step)
DC Bias Adjustment Voltage Range	Range1:+40V~-160V Range2:+100V~-100V Range3:+160V~-40V
Output Impedance	5Ω / 50Ω
Slew Rate	≥ 445V/μs
Input Impedance	50Ω / 10kΩ
Voltage Monitoring	20mV/V(±5%@Output,FS)
Current Monitoring	2V/A(±5%@Output,FS)
Input Amplitude	0~10Vp-p MAX
Output Voltage Error	≤ ±3% FS @ 1 kHz
Total Harmonic Distortion (THD)	≤ 0.1%@1kHz, 100Vp-p
Output Voltage Drift	≤ ±0.1V
Signal-to-Noise Ratio	≥ 80dB
Output Interface	4mm Banana socket
Protection	Over Current Protection
Signal Ground	Connected to chassis and power line ground

Others

Power Supply Voltage	AC110~240V, 50/60Hz
Operating Temperature	0℃ ~ 45℃
Storage Temperature	-20℃ ~ 50℃
Working Humidity	≤ 80% RH, non-condensing
Warranty	1 year
Dimensions	440*149*453mm (W*H*D)

Ordering Information

Model	ATA-2022B Dual Channel High Voltage Amplifier
Accessories	Power cable*1, BNC cable*6, red-black output cable*2 sets, USB cable*1, fuse*1, user manual, usage guide, product qualification certificate, calibration certificate, and packing list (one copy each).
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