ATA-7010 High Voltage Amplifier

- Single channel
- Bandwidth (-3dB): DC~100kHz
- Maximum Output Voltage: 2kVp-p (±1kVp)
- Maximum Output Current: 40mAp
- Slew Rate: ⩾445V/μs

INTRODUCTION

The ATA-7010 is an ideal high voltage amplifier capable of amplifying both AC and DC signals.It provides single-ended output up to 2kVp-p (±1kVp) and can drive high-voltage loads. The voltage gain is digitally adjustable, and frequently used settings can be saved with a single click, offering convenient and straightforward operation.

LCD PANEL DISPLAY

The LCD panel display dynamically shows the device status and parameters, offering a clear and intuitive interface.

INPUT

Input via a BNC connector.

VOLTAGE GAIN

The voltage gain is digitally adjustable from x0 to x1000. Combined with the gain display on the LCD panel, the voltage can be quickly and precisely adjusted as needed.

OUTPUT

Output via an SHV RF connector, with a maximum output voltage of 2kVp-p (±1kVp) and a maximum output current of 40mAp.

MONITOR

1/1000 Monitor: This port voltage is 1/1000 of the output port voltage. The monitoring port uses a BNC connector and can be directly connected to an oscilloscope for real-time monitoring of the output voltage.

Specifications

Model	ATA-7010
Number of Channels	1
Output Type	Single-ended Output
Bandwidth (-3 dB)	DC~100kHz
Maximum Output Voltage	2kVp-p(±1kVp)
Maximum Output Current	20mAp (DC~50Hz) 40mAp (>50Hz)
Maximum Output Power	40Wp
Fuse	3 A/250V
Voltage Gain	x0~1000 (1step/10step)
Load RL Upper Limit	≥ 49.5kΩ (DC~50 Hz) ⩾ 24.5kΩ (>50Hz)
Input Impedance	10kΩ
Output Impedance	500Ω
Slew Rate	≥ 445V/μs
Output Voltage Error	≤ ±1% @(DC, 1kV)
Voltage Monitoring	1000:1(±5%@Output, FS)
Input Amplitude	0~10 Vp-pMAX
Total Harmonic Distortion (THD)	≤ 1%@1kHz, 1.6kVp-p
Output Voltage Zero Drift	≤ ±1V
Output Interface	SHV RF connector
Output Protection	Over Current Protection
Signal Ground	Connected to chassis and power line ground

Others

Power Supply Voltage	AC 220V±10%, 50Hz
Operating Temperature	0°C ~ 45°C
Storage Temperature	-20°C ~ 50°C
Working Humidity	≤ 80% RH, non-condensing
Warranty	1 year
Dimensions	442*164*574mm (W*H*D)

Ordering Information

Model	ATA-7010 Single Channel High Voltage Amplifier
Accessories	Power cable*1, BNC cable*2, High voltage output cable*1 set, USB cable*1, fuse*1, user manual, usage guide, product qualification certificate, calibration certificate, and packing list (one copy each).
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