

ATA-7050 High Voltage Amplifier

- Single channel
- Bandwidth (-3dB): DC~5kHz
- Maximum Output Voltage: 10kVp-p (± 5 kVp)
- Maximum Output Current: 20mA_p
- Slew Rate: $\geq 111\text{V}/\mu\text{s}$

INTRODUCTION

The ATA-7050 is an ideal high voltage amplifier capable of amplifying both AC and DC signals. It provides single-ended output up to 10kVp-p (± 5 kVp) 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 x2000. 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 10kVp-p (± 5 kVp) and a maximum output current of 20mA_p.

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-7050
Number of Channels	1
Output Type	Single-ended Output
Bandwidth (-3 dB)	DC~5kHz
Maximum Output Voltage	10kVp-p(±5kVp)
Maximum Output Current	10mA _p (DC~50Hz) 20mA _p (>50Hz)
Maximum Output Power	100W _p
Fuse	4 A/250V
Voltage Gain	x0~2000 (1step/10step)
Load R _L Upper Limit	≥ 495kΩ (DC~50 Hz) ≥ 245kΩ (>50Hz)
Input Impedance	10kΩ
Output Impedance	Switchable between 5kΩ and 200kΩ
Slew Rate	≥ 111V/μs
Output Voltage Error	≤ ±3% @(DC, 5kV)
Voltage Monitoring	1000:1(±5%@Output, FS)
Input Amplitude	0~10 V _p -pMAX
Total Harmonic Distortion (THD)	≤ 1%@1kHz, 8kVp-p
Output Voltage Zero Drift	≤ ±1V
Output Interface	High Voltage 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*297*574mm (W*H*D)

Ordering Information

Model	ATA-7050 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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