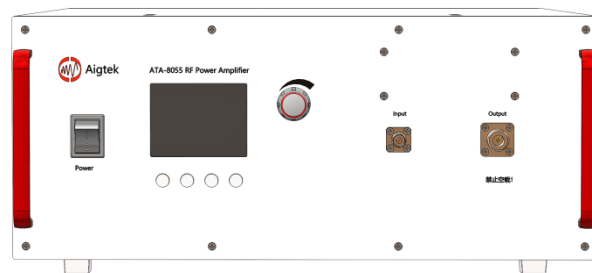


ATA-8055 RF Power Amplifier

- Operating Mode: Class A
- Operating Frequency: 100kHz~5MHz
- P1dB Output Power: 250W
- Saturated Output Power: 500W
- Power Gain: 51dB



INTRODUCTION

ATA-8055 is an RF power amplifier featuring a P1dB output power of 250W and a saturated output power of 500W. The digitally adjustable gain enables precise tuning, with one-click saving of settings for convenient and user-friendly operation. It is compatible with mainstream signal generators, delivering excellent RF signal amplification. The wide-range power supply accommodates different regional power standards worldwide.

LCD PANEL DISPLAY

The ATA-8055 features an LCD panel that dynamically displays device status and parameters. The user interface is intuitive, clear, and easy to understand, ensuring a user-friendly experience.

COOLING METHOD

Combining high-efficiency water cooling circulation technology with intelligent temperature control algorithms, it reduces noise while improving heat dissipation efficiency, significantly enhancing the performance stability of the instrument.

POWER GAIN

The amplifier provides a power gain of 51dB (adjustable from 31dB to 51dB in 0.5dB steps). Combined with the gain display on the LCD panel, parameters can be quickly and precisely adjusted as needed.

OUTPUT PROTECTION

The input uses a BNC connector with an input impedance of 50Ω.

The output uses an N-type connector with an output impedance of 50Ω. No-load operation prohibited!

Over Current Protection, Over Temperature Protection, and Maximum Reflected Power Protection. When the current, temperature, or reflected power of the device exceeds the threshold during operation, the protection will be triggered, and the instrument will shut off the output.

TYPICAL APPLICATIONS

Piezoelectric Ceramic Drive, Ultrasonic Transducer Drive, Medical Ultrasound, Wireless Power Transmission, Ultrasonic Non-destructive Testing, Focused Ultrasound

Specifications

Model	ATA-8055
Operating Mode	Class A
Operating Frequency	100kHz~5MHz
P1dB Output Power	250W
Saturated Output Power	500W
Power Gain	51dB (31dB~51dB/0.5dB step)
P1dB Output Power Input Signal	316mVrms/2mW/3dBm (51dB gain, 500kHz)
Third Harmonic Level	<-25dBc@250W, 500kHz
Maximum Reflected Power Protection	100W
Input Impedance	50Ω
Output Impedance	50Ω
Maximum Input Signal Without Damage	1Vrms/20mW/13dBm
Input Interface	BNC
Output Interface	N-type
Stability	Can drive both passive and reactive loads
Cooling Method	Temperature Controlled water Cooling

Others

Power Supply Voltage	AC 200~240V, 50/60Hz
Operating Temperature	0°C ~ 40°C
Storage Temperature	-20°C ~ 50°C
Working Humidity	≤ 80% RH, non-condensing
Warranty	1 year
Dimensions	440*198*650mm (W*H*D)

Ordering Information

Model	ATA-8055 RF power amplifier
Accessories	Power cable*1, BNC-to-BNC cable*1, N-type output cable*1, USB cable*1, user manual, usage guide, product qualification certificate, calibration certificate, and packing list (one copy each).
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