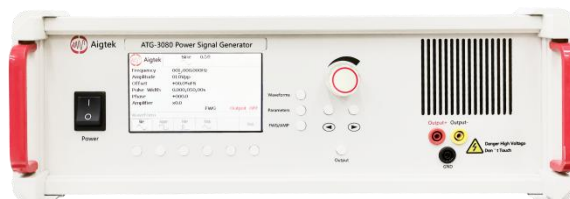


## ATG-3080 Power Signal Source

- Capable of outputting sine waves, square waves, triangle waves, and pulse waves
- Internal or external input signal
- Maximum Output Power: 720Wp
- Bandwidth (-3dB): DC~100kHz
- Digitally adjustable voltage gain



### INTRODUCTION

The ATG-3080 is an ideal power signal source capable of outputting sine, square, triangle, and pulse waveforms. Users can select either internal or external input signals based on their needs. With a maximum output power of 720Wp, it can drive high-power loads. The digitally adjustable voltage gain makes operation more convenient and user-friendly.

### LCD PANEL DISPLAY

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

### VOLTAGE GAIN

When an external input signal is used, the device operates in amplifier mode. In this mode, the voltage gain is digitally adjustable from 0 to 60 times in 1 step increments. Combined with the gain display on the LCD panel, the voltage can be quickly and precisely adjusted as needed.

### INPUT

The external signal input uses a BNC connector. When an internal input signal is used, the device functions in power signal source mode, allowing users to set waveform, frequency, voltage, and other parameters. When an external signal is connected, the device operates in amplifier mode, with an input impedance of 5k $\Omega$ . The output impedance is switchable, and adjusting the voltage gain achieves signal amplification.

### OUTPUT

The output interface uses banana sockets, with a maximum output voltage of 180Vp-p ( $\pm 90$ Vp), and a maximum output current of 8Ap.

## Specifications

|                                 |                                                      |
|---------------------------------|------------------------------------------------------|
| Model                           | ATG-3080                                             |
| Number of Channel               | 1                                                    |
| Output Type                     | Differential output                                  |
| Output Waveform                 | Sine, Square, Triangle, and Pulse waveforms          |
| Bandwidth (-3 dB)               | DC~100kHz                                            |
| Maximum Output Voltage          | 180Vp-p ( $\pm 90$ Vp)                               |
| Maximum Output Current          | 4Ap (DC~50Hz) 8Ap (>50Hz)                            |
| Maximum Output Power            | 720Wp                                                |
| Fuse                            | 8A/250V                                              |
| Voltage Gain                    | x0~60 (1 step)                                       |
| Load RL Upper Limit             | $\geq 22\Omega$ (DC~50Hz) $\geq 10.75\Omega$ (>50Hz) |
| Slew Rate                       | $\geq 40\text{V}/\mu\text{s}$                        |
| Output Impedance                | 0.5 $\Omega$ /100 $\Omega$ (customizable)            |
| Input Impedance                 | 5k $\Omega$                                          |
| Input Amplitude                 | 0~10Vp-pMAX                                          |
| Output Voltage Error            | $\leq \pm 3\% \text{FS}@1\text{kHz}$                 |
| Total Harmonic Distortion (THD) | $\leq 0.1\% @ 1\text{kHz}, 90\text{Vp-p}$            |
| Output Voltage Zero Drift       | $\leq \pm 0.3\text{V}$                               |
| Signal-to-Noise Ratio           | $\geq 80\text{dB}$                                   |
| Output Interface                | 4mm Banana socket                                    |
| Protection                      | Over Current Protection                              |
| Signal Ground                   | Connected to the enclosure and power line ground     |

## Others

|                       |                                        |
|-----------------------|----------------------------------------|
| Power Supply Voltage  | AC220V $\pm 10\%$ , 50Hz               |
| Operating Temperature | 0°C ~ 45°C                             |
| Storage Temperature   | -20°C ~ 50°C                           |
| Working Humidity      | $\leq 80\% \text{RH}$ , non-condensing |
| Warranty              | 1 year                                 |
| Dimensions            | 442*164*474mm (W*H*D)                  |

## Ordering Information

|             |                                                                                                                                                                                                       |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model       | ATG-3080 Power Signal Source                                                                                                                                                                          |
| Accessories | Power cable*1, BNC cable*1, red-black output cable*1set, USB cable*1, fuse*1, user manual, usage guide, product qualification certificate, calibration certificate, and packing list (one copy each). |
| Contact Us  | +86-29-88865020                                                                                                                                                                                       |