

ATG-2000 Series Power Signal Source

It can output sine wave, square wave, triangle wave,
and pulse wave

The input signal can be built-in or external

Output voltage up to 1600Vp-p ($\pm 800V$)

Output current 500mA_p (higher current can be
customized)

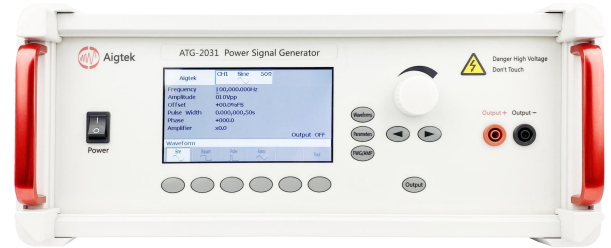
Bandwidth (-3dB) DC~1MHz

Technical Index

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Introduction

ATG-2000 series is a power signal source, mainly used in the university electronic experimental test, MEMS test, ultrasonic test, electromagnetic drive, PZT drive and so on. The voltage gain is numerically adjustable, and the common settings can be saved with one click, providing convenient operation options.

Model	ATG-2021H	ATG-2022H	ATG-2031	ATG-2032
Number of channels	1	2	1	2
Form of output	Single output		Single output	
Bandwidth (-3dB)	DC~1MHz		DC~500kHz	
Maximum output voltage	200Vp-p (± 100 Vp)		300Vp-p (± 150 Vp)	
Maximum output current	250mA _p (DC~50Hz)		60mA _p (DC~50Hz)	
	500mA _p (>50Hz)		120mA _p (>50Hz)	
Maximum output power	50W _p		18W _p	
Fuse	2A/250V	5A/250V	2A/250V	
Voltage gain	x0~60 (1 step)		x0~50 (1 step)	
Load R _L upper limit	$\geq 395\Omega$ (DC~50Hz)		$\geq 2.45k\Omega$ (DC~50Hz)	
	$\geq 195\Omega$ (>50Hz)		$\geq 1.2k\Omega$ (>50Hz)	
Output resistance	5 Ω /1k Ω (Customizable)		50 Ω /2.5k Ω (Customizable)	
Slew Rate	≥ 445 V/ μ s		≥ 334 V/ μ s	
Input resistance	5k Ω			
Input amplitude	0~10V _p -pMAX			
Output voltage error	$\leq \pm 3\%$ FS@1kHz			
Voltage monitoring	100:1 ($\pm 5\%$)			
Total harmonic distortion (THD)	$\leq 0.1\%$ @1kHz, 100V _p -p			
Output voltage zero-point drift	$\leq \pm 0.1$ V			
Signal-noise ratio(SNR)	≥ 80 dB			
Output connector	4mm banana connector			
Protection	Overcurrent protection			
Signal ground	Ground connected with the case and the power line			
Supply voltage	AC220V $\pm 10\%$, 50Hz			
Operating temperature	0 $^{\circ}$ C~45 $^{\circ}$ C			
Storage temperature	-20 $^{\circ}$ C~50 $^{\circ}$ C			
Humidity	$\leq 80\%$ RH, no condensation			
Size (W * H * D)	365*163*365mm	440*163*470mm	365*163*365mm	365*163*365mm

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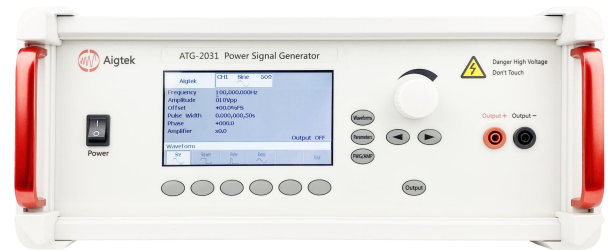
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Maximum output current 500mA_p (higher current
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Introduction

ATG-2000 series is a power signal source, mainly used in the university electronic experimental test, MEMS test, ultrasonic test, electromagnetic drive, piezoelectric ceramic drive and so on. The voltage gain is adjustable numerically controlled, and common settings are saved at one touch, providing you with convenient and concise operation options.

Model	ATG-2041	ATG-2042	ATG-2081	ATG-2082	ATG-2161
Number of channels	1	2	1	2	1
Output form	Single output		Single output	Differential output	
Bandwidth (-3dB)	DC~500kHz		DC~200kHz	DC~150kHz	
Maximum output voltage	400Vp-p (± 200 Vp)		800Vp-p (± 400 Vp)	1600Vp-p (± 800 Vp)	
Maximum output current	50mA _p (DC~50Hz)		20mA _p (DC~50Hz)	20mA _p (DC~50Hz)	
	100mA _p (>50Hz)		40mA _p (>50Hz)	40mA _p (>50Hz)	
Maximum output power	20Wp		16Wp	32Wp	
Voltage gain	x0~60 (1 step)		x0~120 (1 step)	x0~240 (1 step)	
Load R _L upper limit	$\geq 3.95k\Omega$ (DC~50Hz)		$\geq 19.9k\Omega$ (DC~50Hz)	$\geq 39.8k\Omega$ (DC~50Hz)	
	$\geq 1.95k\Omega$ (>50Hz)		$\geq 9.9k\Omega$ (>50Hz)	$\geq 19.8k\Omega$ (>50Hz)	
Output resistance	50 Ω /2.5k Ω (Customizable)		100 Ω /5k Ω (Customizable)	200 Ω /10k Ω (Customizable)	
Slew Rate	$\geq 445V/\mu s$		$\geq 356V/\mu s$	$\geq 534V/\mu s$	
Input resistance	5k Ω				
Input amplitude	0~10Vp-pMAX				
Output voltage error	$\leq \pm 3\%$ FS@1kHz				
Voltage monitoring	100:1 ($\pm 5\%$)				
Total harmonic distortion (THD)	$\leq 0.1\%$ @1kHz, 100Vp-p				
Output voltage zero-point drift	$\leq \pm 0.3V$				
Signal-noise ratio(SNR)	≥ 80 dB				
Output Connector	4mm banana connector				
Protection	Overcurrent protection				
Signal Ground	Ground connected with the case and the power line				
Supply voltage	AC220V $\pm 10\%$, 50Hz				
Fuse	2A/250V				
Operating temperature	0 $^{\circ}$ C~45 $^{\circ}$ C				
Storage temperature	-20 $^{\circ}$ C~50 $^{\circ}$ C				
Humidity	$\leq 80\%$ RH, no condensation				
Size (W * H * D)	365*163*365mm				