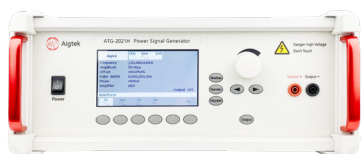


ATG-2000 Series Power Signal Source



Main features

- Can output sine wave, square wave, triangle wave, pulse wave
- Input signal can be built-in or external
- Output voltage up to 1600Vp-p ($\pm 800V$)
- Output current 500mA_p (higher current customizable)
- Bandwidth (-3dB) DC~1MHz

Applications

- Electronic experiment tests for colleges and universities
- MEMS tests
- Ultrasonic tests
- Electromagnetic field drive
- Piezoelectric ceramic drive

Technical Index

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 ($\pm 100Vp$)		300Vp-p ($\pm 150Vp$)	
Maximum output current	250mA _p (DC~50Hz)		60mA _p (DC~50Hz)	
	500mA _p (>50Hz)		120mA _p (>50Hz)	
Maximum output power	50Wp		18Wp	
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	$\geq 445V/\mu s$		$\geq 334V/\mu s$	
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 drift	$\leq \pm 0.1V$			
Signal-noise ratio(SNR)	$\geq 80dB$			
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

ATG-2000 Series Power Signal Source



Main features

- Can output sine wave, square wave, triangle wave, pulse wave
- Input signal can be built-in or external
- Output voltage up to 1600Vp-p ($\pm 800V$)
- Output current 500mA_p (higher current customizable)
- Bandwidth (-3dB) DC~1MHz

Applications

- Electronic experiment tests for colleges and universities
- MEMS tests
- Ultrasonic tests
- Electromagnetic field drive
- Piezoelectric ceramic drive

Technical Index

Model	ATG-2041	ATG-2042	ATG-2081	ATG-2082	ATG-2161
Number of channels	1	2	1	2	1
Form of output	Single output		Single output		Differential output
Bandwidth (-3dB)	DC~500kHz		DC~200kHz		DC~150kHz
Maximum output voltage	400Vp-p ($\pm 200Vp$)		800Vp-p ($\pm 400Vp$)		1600Vp-p ($\pm 800Vp$)
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	20W _p		16W _p		32W _p
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)	$\geq 80dB$				
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				