Datasheet PSG-300



Description

The PSG-300 contains a linear precision power amplifier with a wide bandwidth (DC-300 kHz), suitable for all applications concerning fast alternating signals at high output power. The built in generator provides sine, square and triangle waves. Communication between PSG-300 and PC is via USB connection. The application software is suited for general power generator applications and for immunity tests according to IEC/EN 61000-4-16 as well as to IEC/EN 61543. Short term tests are enabled by phase controlled switching of an external power source (optional). The PSG-300 is equipped with a silent, temperature-controlled fan. Internal safeguards protect the amplifier from overheating and high power dissipation. They also assure protection against short-circuits and overload.

Features:

- Short circuit and overload protection
- · Completely linear and low noise design
- · Outstanding DC stability
- · Over temperature switch off
- · Protection / Ready LED
- EUT-fail input
- EUT-monitor input

The number one choice for all applications with the need for fast and powerful signals, e.g.

- Simulation of DC / AC supply lines
- Generation of magnetic fields with Helmholtz or similar coils
- · Control of piezo actors
- Immunity testing according to IEC/EN 61000-4-16, IEC/EN 61000-4-19 AND IEC/EN 61543
- · Calibration devices etc.





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Technical specifications	PSG-300	PSG-300A	
Amplifier			
Frequency range	DC - 1 MHz (small signal -3 dB)		
Power bandwidth	DC - 200 kHz		
Slew rate	100 V/μs		
Offset	±1 mV (±0.1 mV/°C)		
Gain	10 ±0.1 % (±0.01 %/°C)		
Output voltage	50 Veff / ±75 Vpeak		
Output current	5 Aeff / ±7.5 Apeak	16 Aeff / ±23 Apeak	
Power output	250 W	800 W	
Distortion (DC – 100 kHz, load \geq 4 Ω)	< 0.10%		
Input impedance	100 kΩ		
Max. input voltage	80 V (cont.), 100 V (< 1 min)		
Noise (10 Hz – 1 MHz, input: 50 Ω)	0.5 mVeff		
Output connector	4 mm MC		
Output connector 50 Ω	BNC		
Generator			
Frequency range	DC, 0.05 Hz - 300 kHz		
Frequency resolution	0.05 Hz		
Frequency accuracy	± 20 ppm		
Waveform	Sine, square, triangle		
External generator input	BNC		
General data			
Remote control	USB connector		
Dimension (LxWxD)	448,9x132.55x435.50mm	448.90 x 177 x 585.50 mm	
Weight	approx. 14 kg	approx. 30 kg	

Options:		
PSG-E300	External power source for short term test 300V@DC,162/3Hz,50Hz,60Hz	
PSG-EXT	Input connector for phase controlled switching of external power source	



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