



PA50 Class AB Audio Power Amplifier

Features:

- Continuous output power 4Ω: 50W_{RMS}, 8Ω: 25W_{RMS}
- Class AB power amplifier
- SNR: 107dBA
- THD+N: 0.012%
- Low output noise: 58uV_{RMS} (A-weighting)
- Support overload, short-circuit, DC offset, over-temperature and power on time delay
- LED level and overload indicator
- No cooling fan, no influence to ambient noise



Application:

- General-purpose audio power amplifier for loudspeaker
- Drive for artificial mouths, impedance tube and other sound source

Introduction

PA50 is 2th generation of class AB audio power amplifier designed by BSWA TECH. It is a high performance, 50W audio power amplifier for sound, vibration and general purpose applications that replaced the previous generation product.

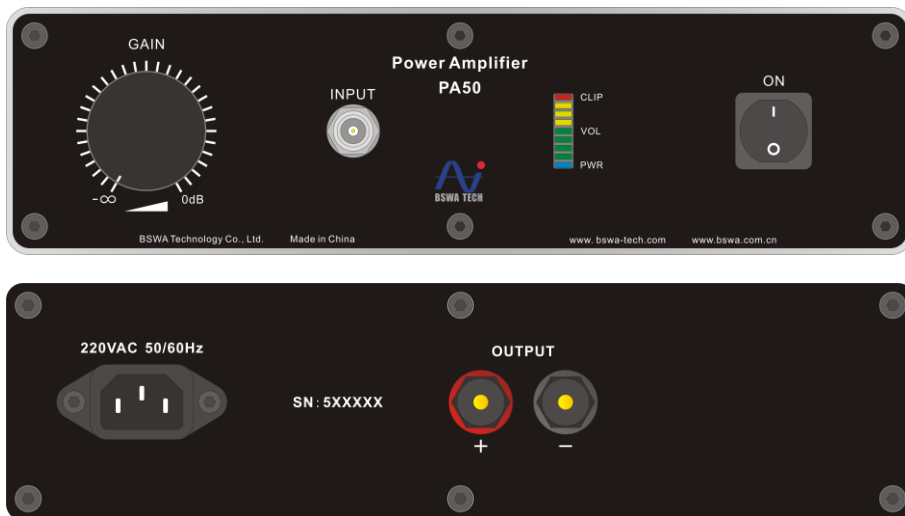
PA50 redesign the case and power amplifier circuit to reduce the output noise and enhanced the operational stability. When adjust the gain to the maximum, the A-weighting output noise is only 58uV_{RMS}. Thanks to the class AB power amplifier chip, it has excellent THD+N performance and is ideal for high-precision audio measurement that requires low distortion.

Specifications

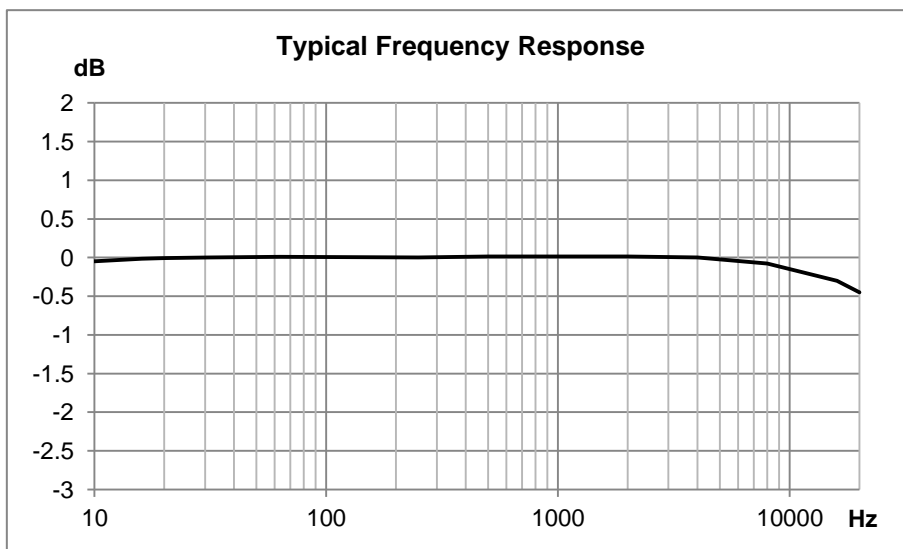
Maximum Output Power (Continuous)	4Ω: 50W _{RMS} , 8Ω: 25W _{RMS}
Maximum Output Voltage	20V _{Peak}
Output Impedance (Typ.)	0.12Ω
Output Noise (Typ.)	200uV _{RMS} (22Hz~22kHz, 8Ω, Gain=0dB) 58uV _{RMS} (A-weighting, 8Ω, Gain=0dB)
Output Connector	4mm Banana Socket
Maximum Input Voltage (Input Sensitivity)	1.0V _{RMS}
Input Impedance (Typ.)	8.8kΩ
Input Connector	BNC
Frequency Response	10Hz~20kHz (+0dB ~ -0.5dB, 8Ω, 20W _{RMS})
SNR	96dB (22Hz~22kHz, 1kHz, 8Ω) 107dB (A-weighting, 1kHz, 8Ω)
THD+N	0.012% (1kHz, 8Ω, 25W)
Gain (Input Attenuator)	-∞~0dB
Overload Indicator	Red LED, cut off output when overload
Level Indicator	6 level LED indicator: -19.5dB ~ -1.5dB
Protection	Overload, short-circuit, DC offset, over-temperature and power on time delay
Cooling	Cooling by shell without fan
Power Supply	220VAC 50/60Hz, IEC Type C13 Connector
Operation Environment	-10°C~50°C, 0%RH~95%RH
Dimensions (mm)	W270 x H210 x D70
Weight	4.4kg (only power amplifier)



Operation Panel



Typical Frequency Response



Note: measured with 8Ω load, output power is 20W_{RMS}.

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