

Nuoxun DSP Power Amplifier



Dual Channel



Four Channel

PRODUCT INTRODUCTION

This series of amplifiers has an adaptive global ultra-wide voltage range, high-efficiency PFC switching power supply, built-in flexible and powerful algorithm processing professional digital amplifier, can easily drive speaker loads as low as 2Ω impedance, unique voltage and current feedback loop design allows the amplifier to work stably for a long time in harsh environments, can more perfectly meet the requirements of KTV, auditorium meetings, bars, discos, theaters, stage performances and other scenes.

PRODUCT FEATURES

- 32-bit DSP chip processing, sampling rate 48KHz, 24-bit ADC and 24-bit DAC;
- Functional input and output data processing packages, flexible import and export call functions for multi-scenario application storage, and user-friendly UI interface make it easy for users to use;
- Automatic EQ, mode matrix, FIR and other practical functions can flexibly cope with various application scenarios;
- Adaptive global ultra-wide voltage range, high efficiency and low power consumption, green environmental protection grade switching power supply configuration, the first choice for global sales;
- Scientific layout, away from interference, selected high-quality components, high-fidelity restoration, make the sound more beautiful and perfect;
- Complete protection function, worry-free use of the power amplifier: DC protection, power on and off anti-impact protection, overheating protection, super audio protection, load short circuit protection, clipping pressure limit protection, intelligent wind control heat dissipation, etc.;
- More user-friendly module fool-proof design, lightweight and convenient design, air fluid filtration and dustproof maintenance design, production, transportation and maintenance are more convenient;
- Automatically generate central control code;
- Quickly match network IP;
- Support 128 scene presets.

TECHNICAL PARAMETERS

Model Number	PLA62D	PLA82D	PLA102D	PLA122D	PLA152D	PLA64D	PLA84D	PLA104D	PLA124D	PLA154D
Picture										
Stereo 8Ω	2X600W	2X800W	2X1000W	2X1200W	2X1500W	4X600W	4X800W	4X1000W	4X1200W	4X1500W
Stereo 4Ω	2X900W	2X1200W	2X1500W	2X1800W	2X2200W	4X900W	4X1200W	4X1500W	4X1800W	4X2200W
Stereo 2Ω	2X1100W	2X1500W	2X1800W	2X2200W	2X2650W	4X1100W	4X1500W	4X1800W	4X2200W	4X2650W
Bridge 8Ω	1750W	2300W	2900W	3500W	4500W	2X1750W	2X2300W	4X2900W	4X3500W	2X4500W
Bridge 4Ω	2350W	3100W	3900W	4650W	5900W	2X2350W	4X3100W	4X3900W	4X4650W	2X5900W
Display Screen	3.5 inch TFT LCD									
Program	Nuoxun DSP Control Software									
Interface	1*RS232 interface, 2*LAN interface, 1*USB interface									
Frequency Response	20Hz~20kHz, ±1dB									
Damping Coefficient	>500									
Channel Isolation	>70dB									
Conversion Rate	>30v/μs									
Power Voltage	AC100-240V~50/60Hz									
Host Size	483×475×89mm (2U)									
GW/NW	13.8KG /11.95KG					15.7KG/13.8KG				

DSP PROCESSING TECHNICAL PARAMETERS

Input Port Feature: Signal Generator, Gain Control, Input Compressor, Grouping,

Polarity, Noise Gate;

Output Port Feature: Crossover, PEQ, Delay Setting, Gain Control, Output limiter, Grouping, **FIR**

Interface : 1*RS232 interface, 2*LAN interface, 1*USB interface;

Input Impedance: 10KΩ Balance ; 20KΩ Unbalance

Maximum Input Level : 21dBu



DSP Output Impedance: 50Ω Balance Output

DSP Maximum Output Level:12dBu

Frequency Response:±1dB@20Hz~20KHz

THD+N: 0.002% @1KHz +4dBu

S/N Ratio:≤-105dBu

Equalizer : 16 band

Convert: 24 Bit ADC,24Bit DAC

Output Delay Setting: 0~2000ms adjustable;

Frequency range of High-Shelf: 20Hz~20KHz;

Range of High-Shelf: ±30dB,increment 0.1dB;

Frequency range of Low-Shelf: 20Hz~20KHz;

Range of Low-Shelf:±30dB,increment 0.1dB;

High and Low Pass Filter: Butterworth slope: 6/12/18/24/30/36/42/48dB/Oct

Bessel slope: 6/12/18/24/30/36/42/48dB/Oct

LinkwitzRiley: 12/24/36/48dB/Oct

Range Of High and Low Pass Filter: 20Hz~20KHz

Input Compressor Threshold Range: -84dBFS ~ 0dBFS,increment 0.1dB;

Ratio: 1 ~ 20

Start time: 1 ~ 1000ms

Recovery time: 1ms ~ 10000ms

Compensation gain: -24dB ~ 30dB

Output Limiter Threshold range: -84dBFS ~ 0dBFS,increment 0.1dB;

Recovery time: 0 ~ 100000ms;