

Prestel CPA Series

1/2/4-Ch Network Class D Power Amplifier



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Characteristics

1. Technical and Energy Consumption Advantages

Switching power technology digital power amplifier, Minimum power consumption;
1U height with less rack space and less heat generation.

2. Specifications and Compatibility

19-inch rack-mount 1/2/4-channel power amplifier;
Rated power output from 120W to 650W;
Multi-channel separate speaker outputs, supporting 4~16Ω low impedance and 100V high impedance.

3. Input and Control Functions

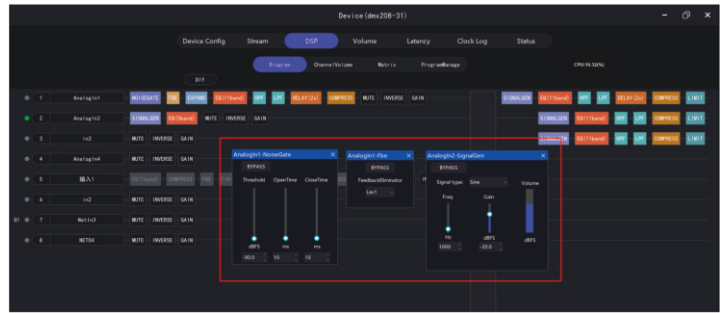
Dual-channel balanced line input via Phoenix connectors;
Each input channel has independent gain control;
Each channel has an independent DSP processing;
Supports AES67 network audio and is equipped with an RJ45 network interface.

4. Intelligent and Monitoring Functions

Built-in auto standby feature to save power consumption;
Each channel is equipped with independent protection, clipping and output status indicator lights;
Support Custom DSP functions with a wide range of function adjustment options.

5. Protection and Adaptability

Comprehensive protection features, including short circuit, overload, high temperature, clipping, and DC;
Supports 110V and 230VAC input.



Specifications

Model	120W	240W	350W	500W
Rated Power Output	1x120W 2x120W 4x120W	1x240W 2x240W 4x240W	1x350W 2x350W 4x350W	1x500W 2x500W 4x500W
Speaker Output	100V & 8~16 Ohm			
Frequency Response	20Hz-20KHz (+1/-2dB)			
input Sensitivity (1KHz)	0.775V, 0dBu			
Input Impedance	10KΩ			
THD	<0.1% (1KHz/-3dBv, 100W)			
S/N Ratio	>80dB			
Crosstalk	>65dB, 1KHz, Max Output			
Power Supply	AC 110V / 230V, 50-60Hz			
Dimension	484x420x44 (mm) (W*D*H)			

DSP Parameters

Dynamic Range	
Distortion	0.01%(THD)
Mixman Delay	7ms
Output gain	-40dB~+6dB 0.5dB
Input gain	-40dB~+6dB 0.5dB

Parametric Equalizer	
Filter	
Gain	±12dB in 0.1dB steps
Central Freq.	20Hz~20kHz 360 ISO
Q value	0.5~128

HPF&LPF	
Filter	
Frequency (high pass)	< 10Hz~16.0kHz
Frequency (low pass)	35Hz~22.0kHz
Response curve	Butterworth 6dB 18dB 24dB 48dB

Limiter		
Level	-40~+3dB	
Attach time	1~100ms	
Holding time	0~100ms	
Decay time	10~1000ms	
Other Functions	SIGNALGEN、NOISEGATE、FBE、 DELAY、EXPAND、FIR、EQ、UCKER 、LIMIT	

Shelving		
Lo-shelf	20Hz~1kHz	
Hi-shelf	1kHz~20kHz	
Shelf gain	±12dB in 0.1dB steps	