DSP7524 DSP7526 DSP7528 DSP7530 DSP7532 DSP7534

Professional Stereo Power Amplifier

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Description

The DSP7524, DSP7526, DSP7528, DSP7530, DSP7532, and DSP7534 Professional Stereo Power Amplifiers deliver exceptional audio performance with output power ranging from 2x400W to 2x1400W at 8Ω, and up to 6000W in bridge mode. Designed for high-fidelity sound, they feature a 15Hz–25KHz frequency response and <0.03% THD for minimal distortion. These amplifiers offer versatile input sensitivity options, a high signal-to-noise ratio of over 102dB, and robust protection mechanisms. With advanced cooling via variable-speed fans and durable build quality, this series is perfect for professional sound systems, ensuring reliable performance in demanding environments.

Features

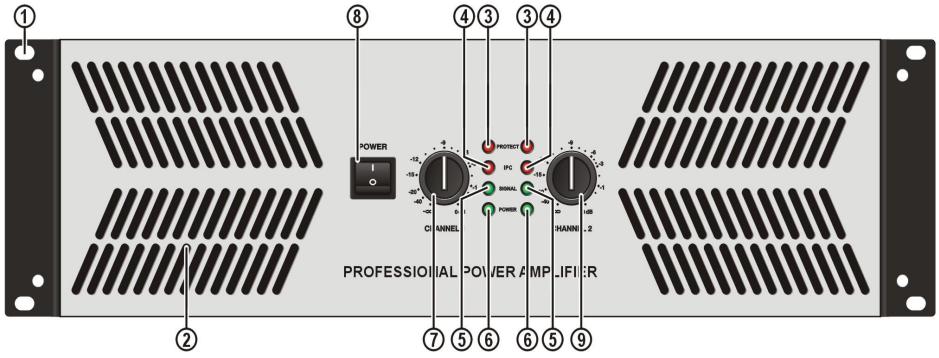
- Power Output Options: Available in various models with output power ranging from 2x400W to 2x1400W at 8Ω, 2x650W to 2x2100W at 4Ω, and 2x950W to 2x3000W at 2Ω.
- Bridge Mode: Provides up to 6000W in bridge mode at 4Ω, delivering powerful sound for larger setups.
- Wide Frequency Response: 15Hz–25KHz (+0/-1dB) for high-fidelity sound reproduction.
- Low Total Harmonic Distortion (THD): Ensures clean sound with THD less than 0.03%.
- High Signal-to-Noise Ratio (SNR): Over 102dB for clear, high-quality audio output.
- Slew Rate: Features a high slew rate of 40V/uS for fast response.
- Damping Factor: >400:1, offering better control over speaker movement.
- Flexible Input Sensitivity: Adjustable to 0.7V, 1.0V, or 1.44V for compatibility with various preamps.
- Class AB & H Output Circuit: Combines the benefits of both technologies for efficiency and performance.
- Multiple Protection Methods: Includes full protection against short-circuits, open-circuits, thermal overload, DC voltage, and more.
- LED Indicators: Power, Signal, Clip, and Protect indicators for easy monitoring of amplifier status.

- Efficient Cooling System: Equipped with 2 variable-speed fans to maintain optimal temperature.
- Overcurrent Protection: Automatically disconnects power if the current exceeds the rated value.
- Versatile Connectors: Equipped with SPEAKON and Binding Post output connectors, and Female XLR-3 input connectors for easy integration into professional setups.

Front / Rear Panel

Model	DSP7524	DSP7526	DSP7528	DSP7530	DSP7532	DSP7534
Output Power (8Ω)	2x400W	2x600W	2x800W	2x1000W	2x1200W	2x1400W
Output Power (4Ω)	2x650W	2x950W	2x1300W	2x1600W	2x1800W	2x2100W
Output Power (2Ω)	2x950W	2x1400W	2x1900W	2x2400W	2x2700W	2x3000W
Output Power (Bridge Mode)(8Ω)	1300W	1900W	2600W	3200W	3600W	4200W
Output Power (Bridge Mode)(4Ω)	1900W	2800W	3800W	4800W	5400W	6000W
Frequency Response	15Hz-25KHz(+0/-1dB)					
THD (Total Harmonic Distortion)	＜0.03%	＜0.035%				
IMD (Intermodulation Distortion)	＜0.038%	＜0.04%				
SNR (Signal Noise Ratio)	＞102dB	＞105dB				
Slew Rate	40V/uS					
Dampling Factor	> 400: 1					
Input Sensitivity	0.7V/1.0V/1.44V					
Input Impedance	10K Ohm Balanced to Ground					
Input Connectors	Female XLR-3					
Output Circuit Type	Class AB	Class H				
Output Connectors	4 Pole SPEAKON & Binding Posts					
Protection Method	Full Short-circuit, Open-circuit, Thermal, Soft-start, DC Voltage, Sub/Ultrasonic and RF					
LED Indicators	Power, Signal, Clip, Protect					
Panel Controls	Front-2 Input Attenuators Rear-Ground Lift, Mode Selection, Compressor					
Radiator	Front-to-Back via 2 variable-speed fans					
Power Supply Voltage	220V AC/50Hz					
Over Current Protection	88-8A	88-12A	88-16A	98-20A	98-20A	98-25A
Dimension	482×443.5×88.8			482×468×132		
Net Weight (Kg)	23.5	26	27	33	34	35.5
Gross Weight (Kg)	26	28.5	29.5	36	37	38.5

Specifications



(1) Installing Hole

Cabinet installation holes allow the amplifier to be mounted on a 19-inch standard rack, facilitating project

installation.

(2) Air Cooling Window

The cooling window dissipates heat generated by the amplifier.

(3) Protect

Protection indicator light. When this light stays on, the amplifier is not functioning properly and requires further inspection by a qualified technician.

(4) Clip

Distortion indicator light. Occasional flashing is normal, but if it stays on, the amplifier has entered clipping saturation and the volume switch of the power amplifier should be appropriately reduced counterclockwise

(5) Signal

Signal indicator light, used to display the working status of the amplifier's output.

(6) Power Indicator

Displays whether the amplifier is powered on and operating.

(7) CH1 Chanel Volume Adjuster

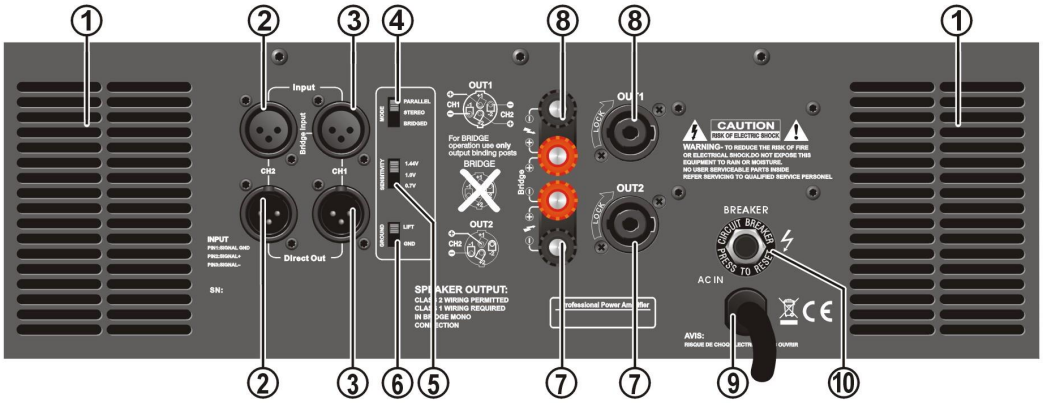
Volume adjustment knob for channel CH1. Turn counterclockwise to decrease volume and clockwise to increase volume.

(8) Power

Power switch. Press down to turn on the power.

(9) CH2 Chanel Volume Adjuster

Volume adjustment knob for channel CH2. Turn counterclockwise to decrease volume and clockwise to increase volume.



(1) Air Cooling Window

Cooling window where the amplifier's cooling fan draws in external cool air to forcibly dissipate heat from the device.

(2) CH2 Chanel Input

Signal input socket for channel CH2.

(3) CH1 Chanel Input

Signal input socket for channel CH1.

(4) ST/BTL/Parallel Switch

Operating mode switch. This switch sets the amplifier to one of three modes: stereo, bridge, or parallel, to adapt to different applications.

(5) Sensitivity Switch

Input sensitivity selection switch. It adjusts the amplifier's input sensitivity to 0.7V, 1.0V, or 1.44V, allowing compatibility with various preamplifier output sources.

(6) GND Switch

Grounding switch.

(7) CH2 Output

Power amplifier output for channel CH2.

(8) CH1 Output

Power amplifier output for channel CH1.

(9) Power Cord (220V)

AC 220V input.

(10) Breaker

Current limiter switch. It automatically disconnects when the power cord's current exceeds the rated value. Contact professional personnel to inspect the relevant circuitry if this occurs.