



ST-D500/ST-D800/ST-D1400/ST-D1800

4 Channel Class-D DSP Power Amplifier



ST-D500/ST-D800



ST-D1400/ST-D1800

This series professional power amplifier adopts advanced Class D power amplifier module and high-efficiency SMPS power module, built-in DSP, fully controlled by digital mode, standard configuration with a USB To PC communication port, only in the standard chassis space of 1U height and 13" depth. Can provide powerful power, this series is mainly aimed at high-demand PA applications.

Features

1. Built-in quality DSP that can accurately do routing, gain, phase, mute, parameter equalizing, delay, frequency division, compression and signal limit.
2. Built-in with PFC, universal operating voltage 90-264VAC. No worry about unstable power voltage.
3. Very light weight, easy to move and install.
4. Soft resonant switching power supply LLC module.
5. Unique peak clipping limiter and ripple Elimination.
6. Nice cooling system. Wind flows from front to rear.
7. Accurate volume control, switch on/off, signal, clip and protection LED light in front



panel.

8. Multiple protections against direct current, over heat, over load, on/off switching, RF, and amplitude limit > Nice cooling system. Wind flows from front to rear.

9. Good choice for applications that need high power output.

Specification

Model No.	ST-D500	ST-D800	ST-D1400	ST-D1800
Channel number	4 channel	4 channel	4 channel	4 channel
Output power at 8Ω	500W*4	800W*4	1400W*4	1800W*4
Output power at 4Ω	800W*4	1300W*4	2300W*4	2800W*4
Output power at 2Ω	N/A	N/A	N/A	N/A
Bridge output power at 8Ω	1600W*2	2600W*2	4600W*2	5200W*2
Bridge output power at 4Ω	N/A	N/A	N/A	N/A
Circuit Category	Class D	Class D	Class D	Class D
Voltage gain	42.7/40.5/32			
Total Harmonic Distortion	≤0.035% (@ 8Ω, 1kHz, 1/8 rated power)			
Intermodulation Distortion IMD	≤0.15% (@ 8Ω, 1kHz, 1/8 rated power)			
SNR	>106dB A			
Crosstalk	>40dB			
Frequency Range	10Hz to 20kHz, +/-1dB			
Input resistance	Balanced 20K/ Unbalanced 10K			
Damping coefficient	≥600			
Conversion rate	≥20v/uS			
Input sensitivity	0.775V, 0dB			
Protection functions	Amplitude limit, and protections against short circuit, over-load, overheat, direct current, radio-interference, on/off switching and muting.			
Control knobs	Power ON/OFF switch, VOLUME control in front panel, STEREO/BRIDGE/MONO Switch in rear panel.			
LED indicators	CLIP/-10dB/SIGNAL/MONO/BRIDGE/STATUS indicators in front panel			
Power delay	4 seconds			
Input interface	XLR Input socket			
Output interface	SPEAKON connector			
Dimensions	483x44x230mm		483x44x381mm	
Net weight	6.2kg	6.9kg	9.8kg	10kg