ADERTECH

PAMP-41TD
PAMP-42TD
PAMP-43TD

Multi-functional Network DSP Digital Power Amplifier

Model No.		PAMP-41TD	PAMP-42TD	PAMP-43TD
Stereo Output power RMS	8Ω	4x1000W	4x2000W	4x3000W
Stereo Output power RMS	4Ω	4x1700W	4x3400W	4x5100W
Stereo Output power	2Ω	4x2890W	4x4760W	4x7140W
Bridged output power	16Ω	2x2000W	2x4000W	2x6000W
Bridged output power	8Ω	2x3400W	2x6800W	2x10200W
Bridged output power	4Ω	2x5780W	2x9520W	2x14280W
100V output wattage	100V	4x800W	4x2000W	4x3000W
RMS output voltage (THD=1%,1KHz)		89.4V	126.5V	154.9V
Maximum Power Consumption (W)		6167W	10125W	13150W
Maximum Power Consumption (A)		27.40A	45A	60A
Input sensitivity options		41dB/38dB/35dB/32dB	41dB/38dB/35dB/32dB	
		0.775V/1.125V/1.414V/2.25V	0.775V/1.125V/1.414V/2.25V	
Voltage Gain		42.7/40.5/32		
THD (total harmony distortion)		0.01% (10% rated output power, 1kHz, 8 ohm)		
IMD (intermodulation distort.)		≤0.15% (@ 8Ω，1kHz，1/8 rated power)		
S/N Ratio (20Hz-20Khz,4 Ohms)		>105dB A, (20Hz-20kHz, 8 ohm)		
Cross-talk (1kHZ, 4 Ohms)		≥90dB (lower than rated output power, 20Hz-1kHz, 8 ohm)		
Frequency response		10Hz to 20k Hz,+/-0.5dB		
Input impedance		balanced 20K/ non-balanced 10K		
Damping factor (10-400Hz,8Ohms)		≥1000 (20Hz-20kHz, 8 ohm)		
Slew Rate		≥20v/uS		
Power requirement		90-260V,50/60Hz		
Protection Functions		Multiple protections against short circuit ,over-load, overheat, direct current, radio-interference , on/off switching, 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		
NMB high speed silent cooling fans		3 pcs	4 pcs	4 pcs
Dimensions (WxHxD)		483x44x370mm	483x44x465mm	483x44x465mm
Shipping Dimensions (WxHxD)/pc		570*110*480mm	590*110*570mm	590*110*570mm
Net weight (KG)		9.15kg	12.50kg	12.65kg
Gross weight (shipping w.) (KG)		10.55kg	14.50kg	14.55kg

Product Features

The DSP series amplifier 4*1000W to 4*3000W are multi-functional smart-controlled network digital amplifiers. It employs advanced SiC (Silicon Carbide) MOSFET transistors, advanced Class-D and highly efficient SMPS module design, with built-in DSP processing and optional Dante network audio. It boasts extremely high efficiency, minimal heat generation, reliable durability, strong protection against breakdown, clean sound quality, and low distortion;

★Remote Intelligent Control: Supports remote device activation/deactivation and real-time status monitoring, enabling fully intelligent and visualized operational maintenance across the entire process.
★Network Operation Mode: Supports TCP/IP control, enabling multi-device management and communication protocol requirements.
★Visual Operation Interface: Equipped with a 2.0-inch true-color display, it provides real-time and intuitive visualization of the device's protection status and pressure limiting status, offering users comprehensive operational information;
★High-precision DSP digital processing: Features such as 96KHz sampling rate, compressor, limiter, noise gate, parametric equalizer, matrix routing, and delay effects;
★Multiple Connection Methods: USB, TCP/IP, COM
★Software Automatic Recognition: On-site amplifier identification can be performed automatically via software
★Multiple Inputs: Supports balanced XLR input and unbalanced RCA input
★Multiple modes for free switching: Supports stereo, bridging, mono, and free matrix modes with one-click switching
★Input Sensitivity: Two adjustable levels (0dBu/6dBu), set via DSP software or color screen
★Power Supply Status Settings: Power On/Standby
★Software Control: Capable of simultaneously controlling media matrices and professional processors
★Input Audio Sources: Analog, Dante, AES67, Test Signals: Pink Noise, White Noise, Sine Wave
★Input Volume: Mute, Phase, Level Detection
★Input/Output EQ: Input EQ with 15-band parametric equalization, Output EQ with 10-band parametric equalization, featuring dynamic EQ adjustment
★Input Noise Gate: Attack Time 1~2895ms, Release Time 1~2895ms, Threshold -120dBu~0dBu
★DSP Matrix: 4x4 Matrix
★Crossover: Butterworth, Bessel, Linkwitz with a slope of 6~24 dB/octave
★Standard Configuration Fir Function: Input supports 4*1024 Taps, Output supports 4*512 Taps
★Constant voltage 100V and constant impedance supported.
★Delay: Input Delay: 2000ms Output Delay: 2000ms
★The software user interface is simple and friendly: it provides customers with a simple setting and operation experience, and multiple connection methods make it highly configurable and expandable, suitable for various environments.
★Wide voltage: With PFC, it can operate stably within the full voltage range (90V-260V) and adapt to harsh power grid environments;
★Stable and reliable 2 Ω driving capability, with two channel and four channel designs, perfectly suitable for various audio systems;
★Adopting active PFC and soft switching technology, the power correction factor can reach up to 0.95, with strong adaptability;
★A standard 1U chassis space can provide powerful power, low loss, energy-saving and environmentally friendly, and save operating costs;
★Adopting high-end components from international manufacturers, advanced and reliable circuits, standardized production processes, and high-quality products;
★Through rigorous reliability, adaptability to high and low temperature environments, user experience, and other tests;
★Full circuit protection: power undervoltage protection, power amplifier output DC protection, overheating protection, temperature power control, overload power control
★Suitable for linear arrays, bars, outdoor performances, conference rooms, cinemas, chapels, music bars, background music, and any occasion that requires sound reinforcement.