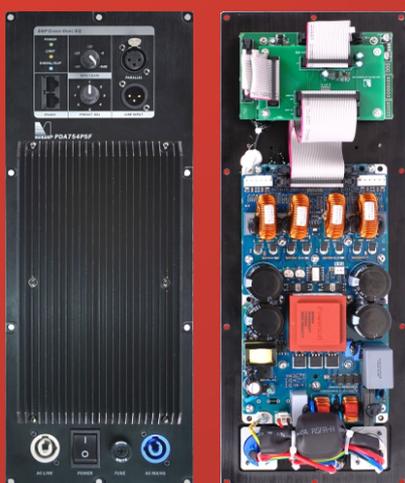


Plate Amplifiers

for Active Speakers - PDA754PS

PDA754PS is a complete solution dedicated to 4-way self-powered loudspeakers. Designed to meet different applications, it provides 4 channels with output power of 4x750W@4 Ohm. Furthermore, it's possible to bridge any 2 of them so to get power of 1500W @8ohm to drive sub woofer. In addition it offers a full set of added value features such as on board DSP and RS485

connection for monitoring and control via dedicated PC software. To guarantee maximum reliability, the PDA754PS output stages use the well-known Class D amplifier module. The PDA754PS includes a set of sophisticated processes for loudspeaker, implemented by the powerful MARANI® DSP running 96kHz/24bit [96 bits precision for the internal intermediate processes] and high performance 24bit AD/DA Converters. Processes as Noise Gate, crossover filters, parametric EQs per input and output sections, RMS compressor with Auto Mode and Auto Knee available, alignment delay, all in all everything needed to optimize a self-powered loudspeaker. Moreover the efficient heat dissipation system and Over-Heat protection ensure uncompromised reliability. Furthermore each output is also equipped with up to 48dB/Oct HP/LP filter. All setup parameters for input mixing, DSP features and the limiter setting are accessible by using the remote PC software.



Features

Outstanding Performance

High power output: 4 x 750W @ 4 Ω , or 2x750W@ 4 Ω + 1500W@8 Ω

Class D Amp Module - full bandwidth PWM modulator with ultra low distortion

Full protection circuitry including Over-Current, Over/Under-Voltage, Output DC and Over-Temperature

Excellent sonic performance with 24bit high end converters coupled with 96kHz sample rate

Top-grade DSP Engine

5 band parametric equalization per input channel

7 band parametric equalization per output channel

All PEQ filters could be selected as Bell, Low/High Shelving, LP/HP variable Q and Notch Filter

Crossover filters with slopes from 6dB/Octave up to - 48dB/Octave including Butterworth, Bessel, Linkwitz-Riley

Input/Output feature a precision dynamic range controller composed of a RMS Compressor and Peak Limiter

Adjustable Delay time up to 960.998 ms for input and output channel

Input channel includes a Noise Gate function, Pink/White noise generator, RMS Compressor, and a up to 48dB/Oct High-Pass filter

While Output channel contains up to 48dB/Oct HP/LP filter and Peak Limiter

Network Connection & Control

RS485 connection for system setup, monitoring and control via fully manageable remote PC software

8 Preset Selection by using rotary encoder switch

Security Lockout

Plate Amplifiers

for Active Speakers - PDA754PS

PDA754PS

Power & Amplifier Sections

Number of Channels -----	4
Max Output Power -----	4x750W@ 4ohm / 2x750W@ 4ohm+ 1500W@ 8ohm
Output Circuitry -----	Class D - full bandwidth PWM modulator with ultra low distortion
Output Voltage -----	78 V (SE Mode) Bridged 156V(BTL Mode)
THD+N -----	< 0.08% (typical < 0.05%)
Signal To Noise Ratio -----	> 115 dB (A-weighted, 20 Hz - 20 kHz, 8 load)
Frequency Response -----	20 Hz - 20 kHz \pm 0,15 dB (8 load, 1 dB below rated power)
Damping Factor -----	> 500@ 1kHz
Power Supply -----	Switch mode power supply with PFC (Power Factor Correction) and integral standby converter
Operating Range -----	85 - 264VAC
Protections -----	Over-Current, Over/Under Voltage, Output DC and Over-Temperature
Ground Noise-----	-86dBu
Maximum Input/Output Level -----	+ 12 dB

Audio

Analog Input -----	1 x XLR electronically balanced, + 12dB
Analog Output -----	1 x XLR electronically balanced (Link)
AD & DA Converters -----	24bit
Frequency Response (DSP)-----	20 Hz - 20 KHz; -0.5dBu at 20 Hz and 20 kHz

DSP & Processing

DSP Engine -----	MARANI® DSP
DSP Resolution -----	24bit (data) x 24 bit (coeff.),54bit accumulation registers, 96 bit precision on intermediate processing data
Input/Output Level-----	-60 ~ + 12 dB
Parametric Equalization -----	5 filters per input channel; 7 filters per output channel
Filter Type -----	Bell, Lo/Hi Shelving, LP/HP variable Q and Notch Filter
Filter Gain -----	from -15dBu up to + 15dBu by 0.5dBu resolution steps
Center Frequency -----	Selectable with a 1Hz resolution step from 20Hz up to 20kHz
Bell Filter Q-----	Q from 0.4 up to 128
Lo/Hi-Shelving, HP/LP Filter Q-----	Q from 0.1 up to 5.1
Notch Filter Q-----	Q from 4 up to 104
Internal Noise Generator-----	Pink/White Noise available, level from -40 to -20 dBu
Crossover section HPF/LPF -----	Linkwitz-Riley,Butterworth 6/12/18/24/36/48dB per octave; Bessel 12/24dB per octave; Filter resolution 1Hz
Input RMS Compressor-----	Makeup from -12 to + 12dBu Threshold from-18dB up to + 12dBu; Knee 0- 100%; Ratio from 2:1 to 32:1; Attack time from 5ms up to 200ms; Release time from 0.1s up to 3s Auto Mode and Auto Knee available
Output Peak Limiter-----	Threshold from-18dB up to + 12dBu; Attack time from 1ms up to 900ms; Release time from 0.1s up to 5s
Delay -----	up to 960.998ms for input and output channel

General

User Preset-----	8
Dimensions -----	155x400x90mm
Weight, Net /Shipping -----	4.7kg/5.3kg