

Description

The 3dB PRO introduces new Class D amplifier technology offering smooth and responsive handling with massive power output while maintaining 3dB PRO's famous sonic integrity. The 3dB PRO PA-D Series is using SMPS technology with built in 4 in 4 out DSP, the resulting high power, lightweight units designed for install and professional touring sound applications.

The 3dB PRO PA-D Series is a range of 4 & 2 channels, high output power amplifiers. The PA-D Series Series has been designed to provide that, Powerful Pure Sonic Performance which is now so synonymous with the 3dB PRO brand name. With the introduction of the PA-D Series 3dB PRO aim to deliver simple, pure and reliable power for applications where cost and ease of use are paramount without lose of integrity.

Features

- Class - D Technology
- Power Factor Correction
- Four-channel / Two-channel flexibility
- XLR input and output connectors
- Self protection design
- Efficient cooling system
- Comprehensive protection
- 4 in 4 out DSP
- In/Out 10 Band Equalizer
- 20 Presets
- PC Control via USB

Applications

- Stadium
- Concerts
- Touring events
- Clubs and Discos
- Places of worship
- Theatre and Auditorium
- Educational Institutions



Power Output

Ratings (RMS @ 1% THD @ 230VAC)

Model	Total Channels	4Ω Per Channel	8Ω Per Channel	4Ω Bridged	8Ω Bridged	70/100V
PA-4.8D	4	800W	400W	2*2500W	2*1600W	2*1600W
PA-4.12D	4	1250W	1250W	-	-	4*800W
PA-2.25D	2	2500W	1600W	-	-	2*1600W

Specifications

THD	< 0.05 % (20 Hz - 20 kHz, 8 Ω load, 3 dB below rated power)
Signal-to-Noise Ratio	> 120 dB (A-weighted, 20 Hz - 20 kHz, 8 Ω load)
Frequency Response	20 Hz - 20 kHz ± 0.25 dB / 20 Hz - 20 kHz ± 0.15 dB (8 Ω load, 1 dB below rated power)
Output Circuitry	Class D - full bandwidth PWM modulator with ultra low distortion
Input impedance	15 kΩ balanced
Damping Factor	> 2000 (8 Ω load, 1 kHz and below)
Gain and Level	
Amplifier gain selectable(Sensitivity)	0.7 / 1.0 / 1.44 Volt
Level adjustment (per ch)	Front-panel potentiometer

Digital Signal Processor			
In / Out		4 In / 4 Out	
DSP		32 bit / 96kHz DSP	
Control		USB	
Preset		20	
Input A,B,C,D			
Equalizer		10 Band, PEQ / LS6 / LS12 / HS6 / HS 12/ APF	
Volume		-60dB to 5dB	
Delay		0 to 4.99ms	
Output 1,2,3,4			
Equalizer		10 Band, PEQ / LS6 / LS12 / HS6 / HS 12/ APF / APF-1	
Delay		0 to 9.99ms	
Limiter		-19dB to 0dB	
Crossover		HPF / LPF	
Input Link		A, B, C, D	
Output Link		1, 2, 3, 4	
Connectors and Switches			
Input connectors (per ch)		3-pin XLR, electronically balanced	
Output connectors (per ch)		3-pin XLR, electronically balanced	
Amplifier Output PA-4.8D & PA-4.12D		4 Pin Speakon 1: +1-1 CH-1, +2-2 CH-2 & 4 Pin Speakon 2: +1-1 CH-3, +2-2 CH-4	
Amplifier Output PA-2.25D		4 Pin Speakon 1: +1-1 CH-1, +2-2 CH-2 & 4 Pin Speakon 2: +1-1 CH-2	
Mode		PA-4.8D Stereo / Parallel / Bridge	
		PA-4.12D Stereo / Parallel	
		PA-2.25D Stereo / Parallel	
Power on/off		on front-panel switch	
Cooling		Fans, front-to-rear airflow	
Front-panel indicators			
Per channel PA-4.8D & PA-4.12D		0dB / Signal / Limit / Protect	
Per channel PA-2.25D		Power / Output signal / Limit / Protect	
Parallel PA-4.8D & PA-4.12D		1 & 2, 3 & 4 Channels	
Parallel PA-2.25D		1 & 2	
Safety			
Protection Circuits		Input limiter, short circuit protection, DC protection of output, under & over voltage protection, SOA protection, intelligent mains fuse protection, power stage overload protection, temperature protection for transformer	
Power			
Type		Universal & regulated switch mode power supply with Power Factor Correction	
Operating voltage		Universal Mains, 90-270V AC	
Mains		Power Cord	
Model	PA-4.8D	PA-4.12D	PA-2.25D
Amplifier Dimension	482 mm x 374 mm x 88 mm (W x D x H)	482 mm x 487 mm x 88 mm (W x D x H)	
Packing Dimension	585 mm x 471 mm x 195 mm (W x D x H)	585 mm x 535 mm x 195 mm (W x D x H)	
Size	2U		
Net Weight	9.60 kg	13.80 kg	14.30 kg
Gross Weight	11.10 kg	15.70 kg	16.20 kg

Note:

- 1) All specifications are typical values.
- 2) The amplifier will be fully operational at 2 ohm loads, but due to physical constraints in the construction, this mode of operation is not recommended.
- 3) The PA-4.8D amplifiers have to select bridge mode for 70/100V operation.

For more information,

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