Description

The POPE Professional® introduces new Class D amplifier technology offering smooth and responsive handling with massive power output while maintaining POPE Professional's famous sonic integrity. The POPE Professional PM-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 POPE Professional® PM-D Series is a range of 4 channels, high output power amplifiers. The PM-D Series has been designed to provide that, Powerful Pure Sonic Performance which is now so synonymous with the POPE Professional® brand name. With the introduction of the PM-D Series POPE Professional® aim to deliver simple, pure and reliable power for applications where cost and ease of use are paramount without lose of integrity. The PM-D Series amplifiers are having on board FIR/IIR filters, Analog In/Out, AESOP digital signal In/Out and SoundNet® Networking. The customer can add POPE Professional® SN-2 AES67 Network module or SN-4 Dante Network module at any time to enable digital networking. The SN-2 AES67 or SN-4 Dante module is an optional.

Features

- Class - D Technology
- FIR / IIR Filter per Input & Output
- Four-channel flexibility
- XLR input and output connectors
- Sampling rate 96 kHz - 40 bit floating
- Up to 255 devices in one network
- 24 bit AD/DA converters
- X-Over, Dynamic / RMS / PEAK Limiters
- 24 Presets
- AES67 / Dante / AESOP Digital Input
- Supplied with SoundNet® Networking GUI

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
PM-500D	4	500W	250W	2*1250W	2*1250W	2*800W
PM-800D	4	800W	400W	2*2500W	2*1600W	2*1600W
PM-1250D	4	1250W	1250W	-	-	4*800W
PM-2500D	4	2500W	1600W	-	-	4*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)			
Digital Signal Processor				
In/Out	4 In / 4 Out			
DSP	40 bit / 96kHz DSP			
Filters	FIR / IIR, Frequency, Gain, RMS, Peak, Dynamic Limiter			
Analog Signal	Balanced Input / Output			
Digital Signal	Dante® / AES67 / AESOP (SN-2 AES67 / SN-4 Dante Module - Optional)			
Connectors	XLR male / female and Ethernet			
Control	Ethernet - SoundNet® Networking			
Preset	24			
	For more specifications about DSP, check the XT-4040 product catalogue.			
Connectors and Switches				
Input connectors (per ch)	3-pin XLR, electronically balanced			
Output connectors (per ch)	3-pin XLR, electronically balanced			
Amplifier Output	4 Pin Speakon 1: +1-1 CH-1, +2-2 CH-2, 4 Pin Speakon 2: +1-1 CH-2,			
	4 Pin Speakon 3: +1-1 CH-3, +2-2 CH-4, 4 Pin Speakon 4: +1-1 CH-4			
Power on/off	on front-panel switch			
Cooling	Fans, front-to-rear airflow			
Front-panel indicators				
Display	OLED Display			
Per channel	Signal / Clip / Protect			
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	**PM-500D**	**PM-800D**	**PM-1250D**	**PM-2500D**
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	9.30 kg	9.60 kg	13.80 kg	14.30 kg
Gross Weight	10.80 kg	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 PM-500D & PM-800D amplifiers have to select bridge mode for 70/100V operation.