



Single Channel Power Amplifiers **PA-9312/24/36/48**

Features

- PA-9312: 120W Mono 4Ω, 70V, 100V
- PA-9324: 240W Mono 4Ω, 70V, 100V
- PA-9336: 360W Mono 4Ω, 70V, 100V
- PA-9348: 480W Mono 4Ω, 70V, 100V
- Balanced XLR Input
- Link Connector on Input for Multiple Amplifier Operation
- Adjustable Input Gain from -12dB to 0dB
- Switchable High-Pass Filter
- Automatic Two-Speed Cooling Fan
- Automatic Thermal Protection
- Output Level Indicators
- AC Mains or 24VDC Powered
- Rack Mount (3RU)



Description

The PA-9312, PA-9324, PA-9336 and PA-9348 are reliable, heavy-duty single-channel power amplifiers designed for demanding sound system applications. All models feature an XLR balanced input, with adjustable input sensitivity from -12dB to 0dB. A parallel male XLR connector enables convenient amplifier linking in multiple amplifier installations. Automatic thermal protection circuitry is provided and an "idling" circuit protects against thermal runaway. A two-speed fan helps ensure reliability, switching to high-speed when the amplifier is under heavy load. A switchable high-pass filter helps provide driver protection from excessive low frequencies. Front panel LEDs indicate output levels of -40dB, -10dB and clipping, as well as protection circuit activation. A ground-lift switch is provided to isolate signal ground from chassis ground. The outputs are 4Ω, 70V, or 100V (output transformer varies depending on country). The units can be powered by 100-120VAC/220-240VAC (depending on country requirements), or 24VDC, enabling the unit to be used as part of a portable PA system, or connection to a standby power supply for emergency operation. All models are packaged in a 5 1/4" high (3RU) rack-mount enclosure.

Technical Specifications

ELECTRICAL	PA-9312	PA-9324	PA-9336	PA-9348
Power Output (RMS)	120W	240W	360W	480W
Output Impedance or Voltage	4Ω, 70V, 100V (outputs vary depending on country)			
Front Panel LEDs	-40db, -10dB, Clipping and Protection Circuit Activation			
Frequency Response	70Hz - 18kHz (+1/-3dB)			
THD	< 1%			
Signal-to-Noise Ratio	> 95dB			
High Pass Filter	-3dB@400Hz			
Input Sensitivity and Impedance	1.0V/10kΩ, Balanced XLR			
Input Level Adjustment	-12dB - 0dB			
GENERAL				
Power Source – AC	100-120VAC or 220-240VAC 50/60Hz			
Power Source – DC	24VDC			
Power Switch	Push-On/Push-Off with Integral Power LED			
Weight	31lbs.	42lbs.	43lbs.	48lbs.
	14kg	19kg	19.5kg	22kg
Dimensions (W x H x D)	19" x 5.25" x 11"			
	482mm x 132mm x 280 mm			

PA-9312/24/36/48 Architects and Engineers Specifications

The power amplifier shall be a single channel amplifier capable of 120W(PA-9312), 240W(PA-9324), 360W(PA-9336), or 480W(PA-9348) RMS output. The outputs shall be 4Ω, 70V, or 100V (output transformer varies depending on country). Amplifier protection shall be provided by a thermal sensing circuit, protecting against over-temperature and over-current, and shall feature an "idling" circuit to protect against thermal runaway. A two-speed fan shall cool the unit, switching to high-speed when the amplifier is under heavy load. The input shall be balanced, with adjustable sensitivity from -12dB to 0dB.

The input connector shall be a female XLR, and a parallel male XLR connector shall be provided to facilitate connections in multiple amplifier applications. A switchable high-pass filter shall provide -3dB attenuation at 400Hz. Front panel LEDs shall indicate output levels at -40dB, -10dB and at clipping, as well as to indicate protection circuit activation.

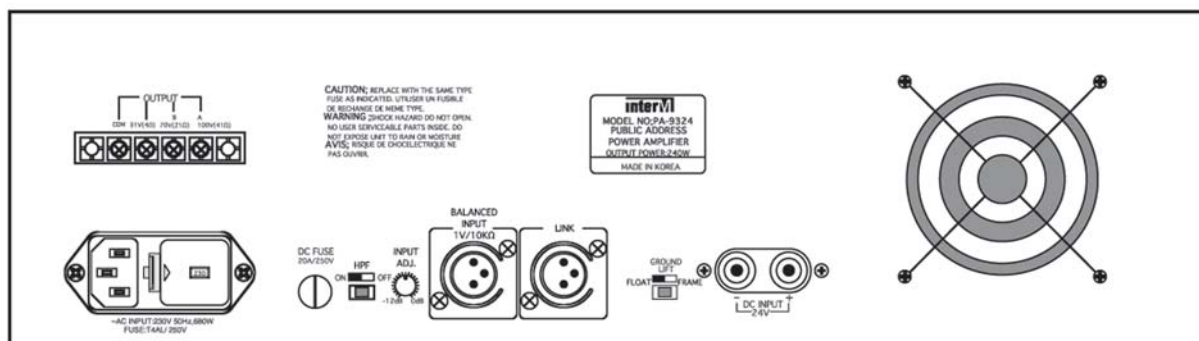
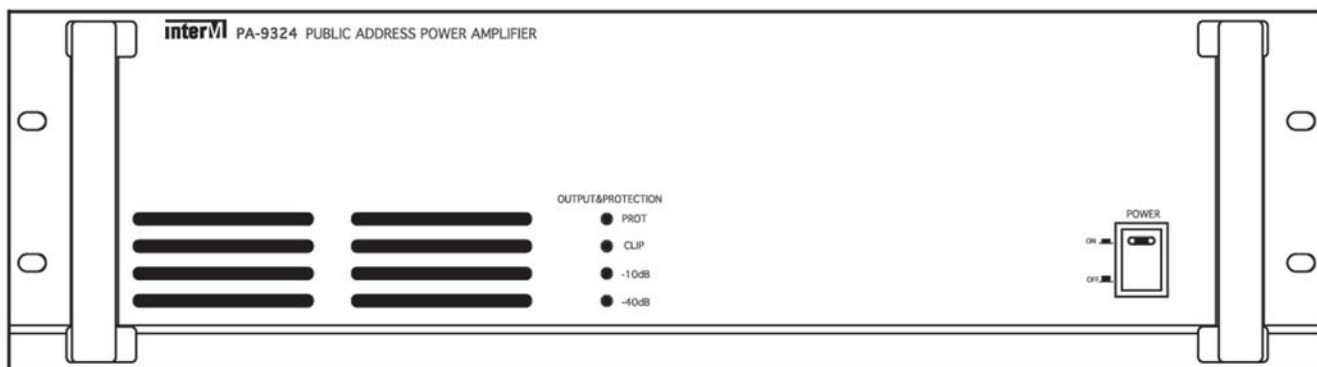
The power amplifier shall meet the following performance criteria:

Frequency response shall be from 70Hz to 18kHz +1/-3dB; total harmonic distortion shall be less than 1% at rated output at 1kHz; and signal-to-noise ratio shall exceed 95dB. Input sensitivity and impedance shall be 1.0V@10kΩ.

The single-channel power amplifier shall measure 19"(482mm) wide x 5.25"(132mm) high x 11"(280mm) deep, and shall mount in a standard 19" rack. The power source shall be 100-120VAC or 220-240VAC 50/60Hz (depending on country requirements), or 24VDC. The power shall be controlled from a front-panel mounted push-on/push-off switch with an integral power LED.

The single-channel power amplifier shall be an Inter-M model PA-9312, PA-9324, PA-9336, or PA-9348.

PA-9312/24/36/48 Front and Rear Views



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