



Public Address Amplifier

Dual Channel

PA-2312

Features

- 120W RMS per Channel
- Front Panel-Mounted Gain Adjustment
- LED Output Level Indicators
- LED Indicators for Protect
- 4Ω, 70V, 100V Outputs
- Balanced XLR Inputs
- Link Connector On Inputs for Multiple Amplifier Operation
- Switchable High-Pass Filter
- Two-Speed Cooling Fan
- Frame/Float Ground Switch
- Automatic Thermal Protection
- AC Mains or 24VDC Powered
- Rack Mount (3RU)



Description

The PA-2312 is a reliable, heavy-duty dual-channel public address amplifier designed for demanding sound system applications. The unit features XLR balanced inputs with front panel-mounted signal level controls. Parallel male XLR connectors enable 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. Switchable high-pass filters help provide low frequency protection for speakers. 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. The unit is packaged in a 5.25" high (3RU) rack-mount enclosure.

Technical Specifications

ELECTRICAL	PA-2312
Power Output	120W/Channel 23V/4Ω; 70V/14Ω; 100V/28Ω
Frequency Response	70Hz - 18kHz
THD	< 1%
High Pass Filter (400Hz)	-6dB/Oct
Signal-to-Noise Ratio	>95dB
Input Sensitivity/Impedance	1V/10kΩ, BAL
Input Level Adjustment	-12dB - 0dB
GENERAL	
Power Source	100-120VAC or 220-240VAC 50/60Hz
Power Consumption	290W
Weight	53.6lbs. 20kg
Dimensions (W x H x D)	19" x 5.25" x 11" 482mm x 132mm x 280mm

PA-2312 Architects and Engineers Specifications

The public address amplifier shall be a dual-channel amplifier capable of 120W RMS output per channel. 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 inputs shall be balanced, with front panel-mounted gain adjustment. The input connectors shall be female XLR, and parallel male XLR connectors shall be provided to facilitate linking connections in multiple amplifier applications.

Switchable high-pass filters shall provide -6dB attenuation at 400Hz. Front panel LEDs shall indicate output levels at -40dB, -10dB and at clipping, as well as protection circuit activation.

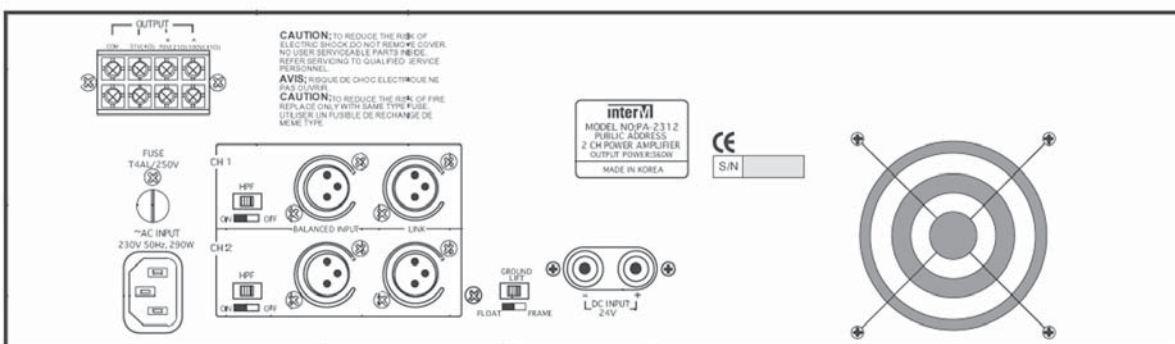
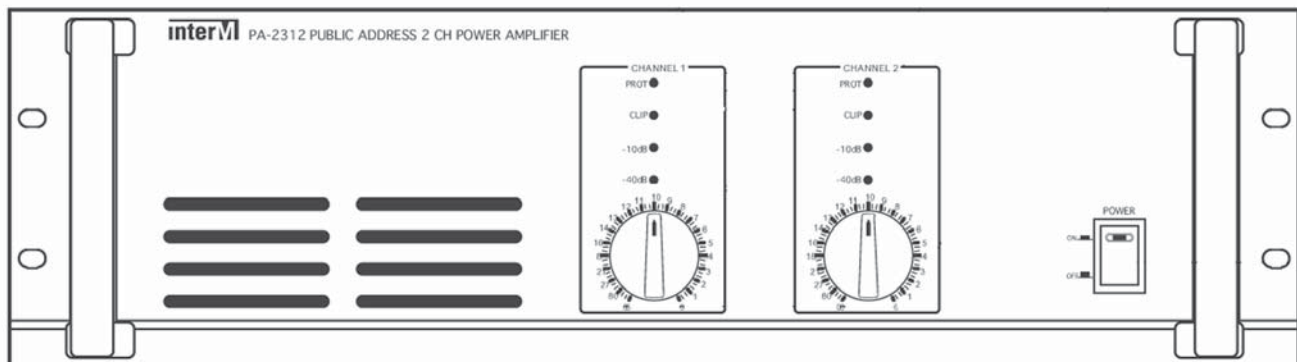
The dual-channel public address amplifier shall meet the following performance criteria:

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

The dual-channel public address amplifier shall be an Inter-M model PA-2312.

PA-2312 Front and Rear Views



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