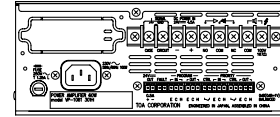


VP-1061/1121/1241/1361 Power Amplifiers



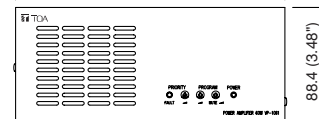
APPEARANCE AND DIMENSIONAL DIAGRAM

VP-1061/1121



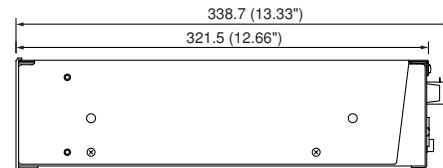
Rear View

210 (8.27")



Front View

88.4 (3.48")



Side View

338.7 (13.33")

321.5 (12.66")

unit: mm

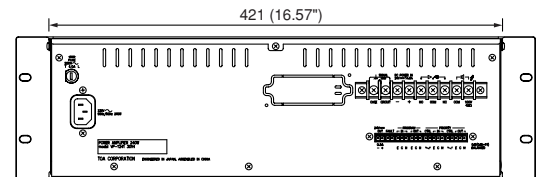
DESCRIPTION

TOA models VP-1061/1121/1241/1361 are 1-channel power amplifiers designed exclusively for rack-mount use. They have a compact body design, and are also capable of delivering high output power, which is available in a range of from 60 W to 360 W. These highly-durable amplifiers operate on both AC and DC power, making them ideally suited for PA as well as emergency broadcasting purposes. In priority operation mode, a built-in relay contact allows emergency announcements to go through regardless of volume control settings in the 3-wire or 4-wire connection systems.

FEATURES

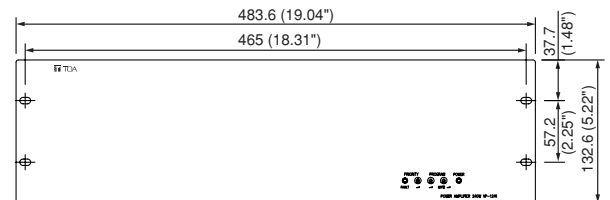
- High output power capacity in a compact body design.
 - 60W, 120W models: 2U half-rack size
 - 240W, 360W models: 3U full-rack size
- Have passed a rigorous operation test and offer durability suitable for emergency broadcasting.
- Operation on both 230V AC and 24V DC for uninterrupted performance.
- Two each of parallel-connected Program and Priority Inputs.
 - Volume level of Program Input can be attenuated whenever the Priority Input receives a signal.
 - Attenuation of the volume level is adjustable.
- Relay contact for emergency announcements at any time.
- Fault detection of the amplifier and the speaker line with an optional YA-1000A module.
- Easy connection thanks to removable terminal blocks.
- Output current limiter

VP-1241/1361



Rear View

421 (16.57")



Front View

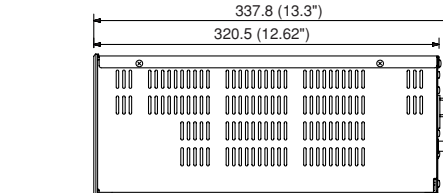
483.6 (19.04")

465 (18.31")

87.7 (1.48")

57.2 (2.25")

132.6 (5.22")



Side View

337.8 (13.3")

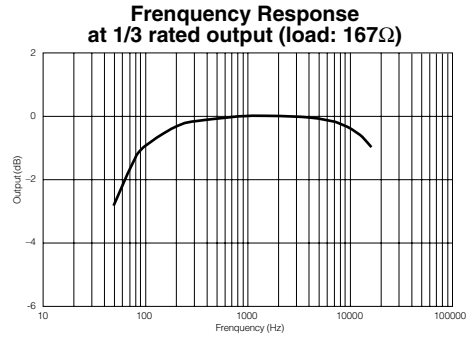
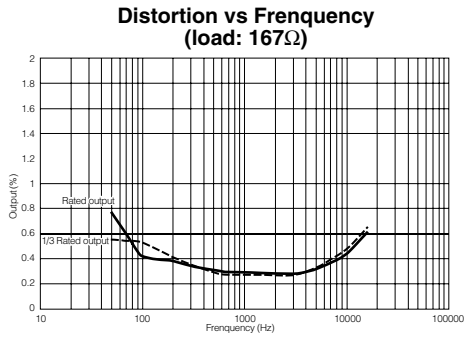
320.5 (12.62")

unit: mm

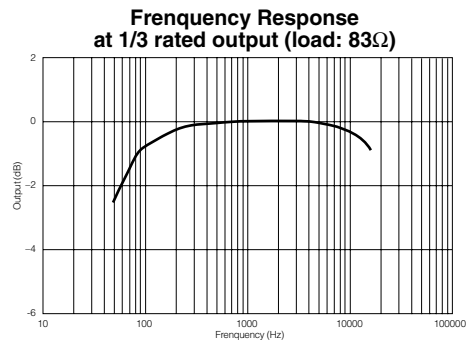
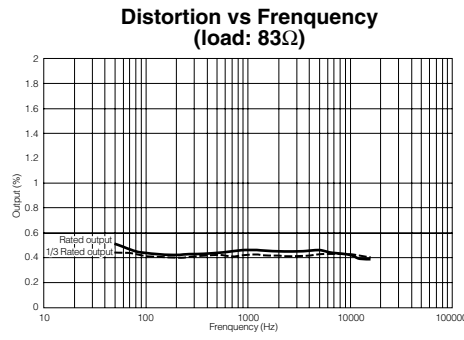


CHARACTERISTIC DIAGRAMS

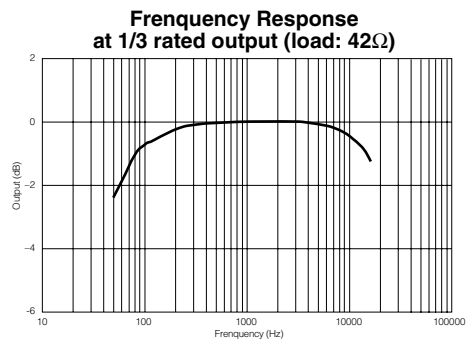
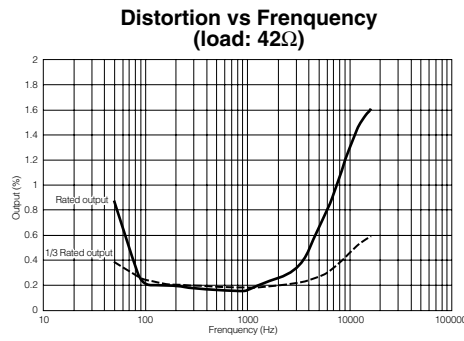
VP-1061



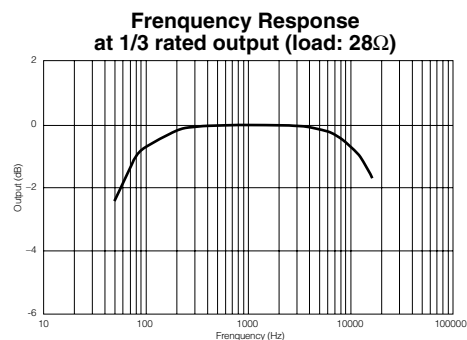
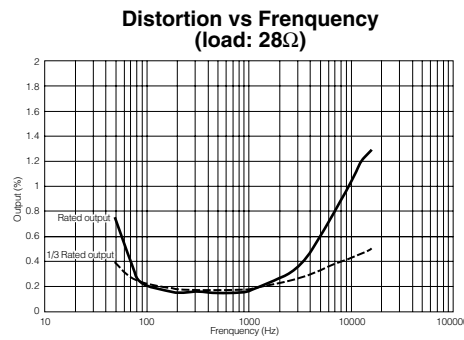
VP-1121



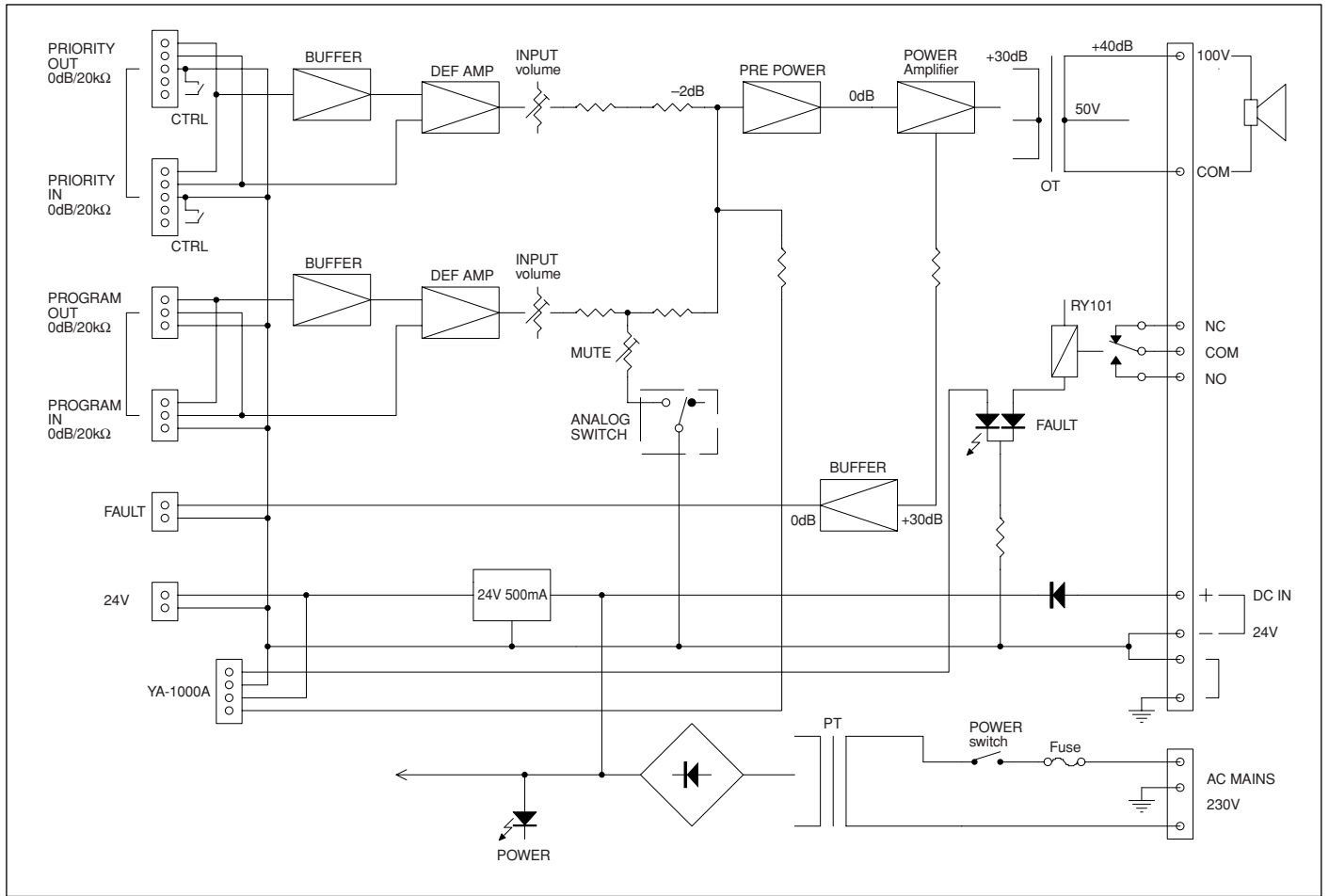
VP-1241



VP-1361



BLOCK DIAGRAM



SPECIFICATIONS

Model No.	VP-1061	VP-1121	VP-1241	VP-1361
Power Source	230V AC, 50/60Hz or 24V DC			
Power Consumption	AC: 170W (at rated output), 100W (EN60065) 14W (no-signal) DC: 4.5A (at rated output), 0.1A (no-signal)	AC: 320W (at rated output), 160W (EN60065) 19W (no-signal) DC: 8.2A (at rated output), 0.1A (no-signal)	AC: 537W (at rated output), 240W (EN60065), 21W (no-signal) DC: 14.6A (at rated output), 0.4A (no-signal)	AC: 768W (at rated output), 330W (EN60065), 37W (no-signal) DC: 20.9A (at rated output), 0.5A (no-signal)
Rated Output	60W	120W	240W	360W
Input	2 program inputs (parallel), 0dB*, 20kΩ, balanced 2 priority inputs (parallel), 0dB*, 20kΩ, balanced			
Impedance	167Ω (100V)	83Ω (100V)	42Ω (100V)	28Ω (100V)
S/N Ratio	Over 80dB			
THD	Under 1% (at rated output f = 1kHz)			
Frequency Response	80 – 16,000Hz, ±3dB (at 1/3 rated output)			
Ventilation	Fan cooling			
Operating Temperature	0°C to +40°C (32°F to 104°F)			
Operating Humidity	Under 90% RH (no condensation)			
Finish	Panel: Aluminum, black, alumite			
Dimensions	210 (W) × 88.4 (H) × 338.7 (D)mm (8.27" × 3.48" × 13.33")		483.6 (W) × 132.6 (H) × 337.8 (D)mm (19.04" × 5.22" × 13.3")	
Weight	6.9kg (15.21 lb)	9.3kg (20.5 lb)	13.4kg (29.54 lb)	16.6kg (36.6 lb)
Accessories	Power cable (2m (6.56 ft)) × 1, Removable terminal plug (2 pins) × 2, Removable terminal plug (3 pins) × 2, Removable terminal plug (5 pins) × 2, Joint plate × 1, Joint plate mounting screw × 3, Fuse (1.25A) × 1	Power cable (2m (6.56 ft)) × 1, Removable terminal plug (2 pins) × 2, Removable terminal plug (3 pins) × 2, Removable terminal plug (5 pins) × 2, Joint plate × 1, Joint plate mounting screw × 3, Fuse (2.5A) × 1	Power cable (2m (6.56 ft)) × 1, Removable terminal plug (2 pins) × 2, Removable terminal plug (3 pins) × 2, Removable terminal plug (5 pins) × 2, Fuse (4.0A) × 1	Power cable (2m (6.56 ft)) × 1, Removable terminal plug (2 pins) × 2, Removable terminal plug (3 pins) × 2, Removable terminal plug (5 pins) × 2, Fuse (6.3A) × 1
Options	Fault detector: YA-1000A Half width blank panel: MB-25B-BK (for rack mounting one VP-1061/1121 unit) Rack joint bracket: MB-25B-J (for rack mounting two VP-1061/1121 units)		Fault detector: YA-1000A	

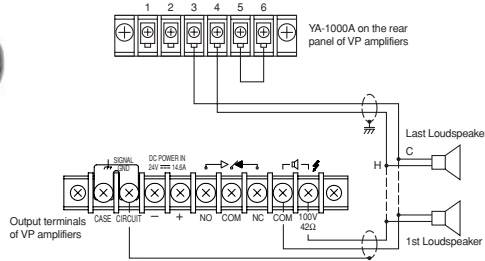
*0dB = 1V

OPTIONS

YA-1000A Fault Detection Circuit Module

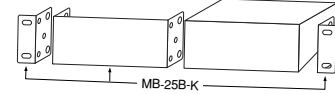


The YA-1000A module is designed for use with VP Series power amplifiers. It detects breakages in the speaker-amplifier line loop by means of a 20kHz pilot signal. If there is any breakage, the amplifier POWER LED indicator goes out, activating the unit's relay output.



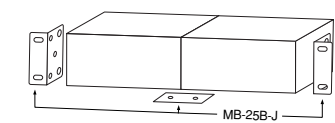
MB-25B-BK (2-size)

Color: Black



MB-25B-J (2-size)

Color: Black



ARCHITECTURAL AND ENGINEERING SPECIFICATIONS

VP-1061/VP-1121

The amplifier shall be 1-channel power amplifier which operates on 230 V AC 50/60 Hz or 24 V DC power. The specified product shall be 2U half-rack size rack-mount type, fan-cooled power amplifier. Two program inputs and two priority inputs, (both parallel, 0 dB, 20 k Ω , balanced) shall be provided. The amplifier shall meet the following performance criteria: Power output shall be VP-1061: 60 W, VP-1121: 120 W at less than 1% THD (rated output, f = 1 kHz). Power consumption shall be VP-1061: 100W, VP-1121: 160W at 1/3 rated output. An output current limiter shall be provided. Frequency response shall be 80 Hz to 16 kHz at 1/3 rated output (± 3 dB), with an S/N ratio of over 80 dB. Impedance shall be VP-1061: 167 Ω (100 V), VP-1121: 83 Ω (100 V). The adjustable volume level of the program input shall be attenuated whenever the priority input receives a signal. A relay contact for immediate emergency announcements shall be provided. Removable terminal blocks shall be provided for easy connection. The panel shall be black aluminum, alumite. Dimensions shall be 210 (W) \times 88.4 (H) \times 338.7 (D) mm and weight VP-1061: 6.9 kg, VP-1121: 9.3 kg. The operating temperature shall be 0°C to +40°C. Supplied accessories shall be: 2m power cable \times 1, 2-pin removable terminal plug \times 2, 3-pin removable terminal plug \times 2, 5-pin removable terminal plug \times 2, joint plate \times 1, joint plate mounting screw \times 3, fuse (VP-1061: 1.25 A, VP-1121: 2.5 A) \times 1. Fault detection of the amplifier and the speaker line shall be possible with an optional YA-1000A module. Optional rack mounting panels shall be the MB-25B-BK half-width blank panel for one amplifier unit, and the MB-25-J rack joint bracket for two units.

The power amplifier shall be TOA model VP-1061/VP-1121.

VP-1241/VP-1361

The amplifier shall be 1-channel power amplifier which operates on 230 V AC 50/60Hz or 24 V DC power. The specified product shall be 3U full-rack size rack-mount, fan-cooled power amplifier. Two program inputs and two priority inputs, (both parallel, 0 dB, 20 k Ω , balanced) shall be provided. The amplifier shall meet the following performance criteria: Power output shall be VP-1241: 240 W, VP-1361: 360W at less than 1% THD (rated output, f = 1 kHz). Power consumption shall be VP-1241: 240 W, VP-1361: 330 W at 1/3 rated output. An output current limiter shall be provided. Frequency response shall be 80 Hz to 16 kHz at 1/3 rated output (± 3 dB), with an S/N ratio of over 80 dB. Impedance shall be VP-1241: 42 Ω (100 V), VP-1361: 28 Ω (100 V). The adjustable volume level of the program input shall be attenuated whenever the priority input receives a signal. A relay contact for immediate emergency announcements shall be provided. Removable terminal blocks shall be provided for easy connection. The panel shall be black aluminum, alumite. Dimensions shall be 483.6 (W) \times 132.6 (H) \times 337.8 (D) mm and weight VP-1241: 13.4 kg, VP-1361: 16.6 kg. The operating temperature shall be 0°C to +40°C. Supplied accessories shall be: 2m power cable \times 1, 2-pin removable terminal plug \times 2, 3-pin removable terminal plug \times 2, 5-pin removable terminal plug \times 2, fuse (VP-1241: 4.0 A, VP-1361: 6.3 A) \times 1. Fault detection of the amplifier and the speaker line shall be possible with an optional YA-1000A module.

The power amplifier shall be TOA model VP-1241/VP-1361.



TOA Corporation

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