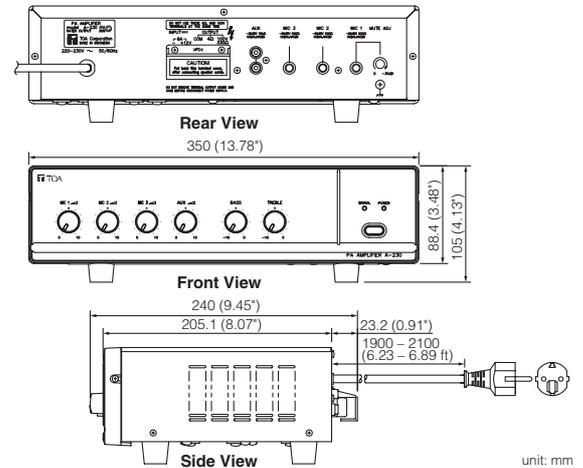


# A-230 Package Amplifier

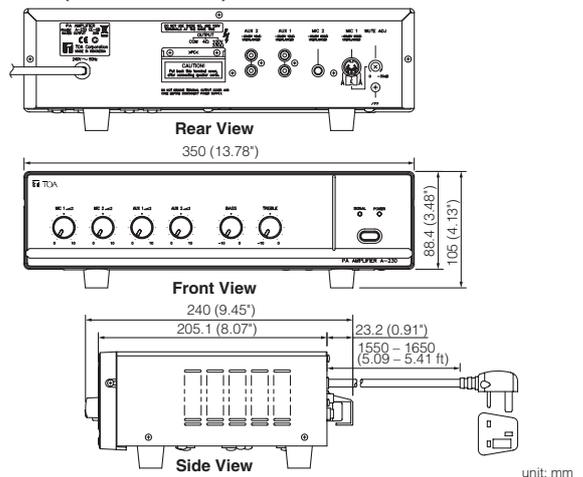


## APPEARANCE AND DIMENSIONAL DIAGRAM

A-230 (HV Version)



A-230 (CE-GB Version)



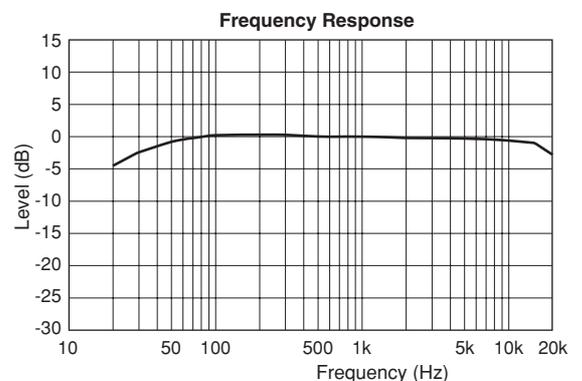
## DESCRIPTION

An entry level package amplifier that includes features and functions best suited for background music and paging applications. The TOA A-230 is designed to deliver consistently high-quality performance and reliability along with easy installation and simple operation. Separate bass and treble tone control functions make the sound clearer and more pleasing to the listener, while Mic 1 muting facilitates announcements at any time, with a quick return to regular operation.

## FEATURES

- Cost effective package amplifier that's compact, lightweight and best suited for paging and background music distribution.
- 100V and 4 ohm speaker outputs.
- Ultra high performance with wide frequency response.
- Low noise and distortion.
- Separate Bass and Treble controls.
- Either AC or DC operation (HV version only)
- Muting function for MIC1 over-ride of the other inputs.
- Current limiter circuitry shall protect transistors against a failure due to overheat.

## CHARACTERISTIC DIAGRAM



**HV/CE-GB Version**

# ARCHITECTURAL AND ENGINEERING SPECIFICATIONS

## A-230 (HV Version)

The package amplifier shall operate on 220 – 230 V AC, 50/60 Hz or 12 V DC power and deliver an audio output of 30W. The product shall control and mix 3 unbalanced (phone jack) MIC and 1 unbalanced (RCA pin jack) AUX input. The amplifier shall include 100V or 4 ohm floating balanced outputs with screw terminal type connections. Frequency response shall be 50 Hz to 20 kHz, with less than 1% THD at 1/3 rated output. The S/N ratio shall be 60 dB or more (MIC 1 – 3), 70 dB or more (AUX). The amplifier shall incorporate an auto-mute function that allows MIC 1 input signal to override the other inputs (MIC 2, 3 and AUX) with 0 to 30 dB attenuation. The amplifier shall include Bass/Treble controls. Power and signal indicators shall be provided. Current limiter circuitry shall protect transistors against a failure due to overheat.

The panel shall be ABS black resin with hairline, and the case black steel plate. Dimensions shall be 350 (W) × 105 (H) × 240 (D) mm, and weight 3.5 kg.

The package amplifier shall be TOA model A-230 or equivalent.

## A-230 (CE-GB Version)

The package amplifier shall operate on 240 V AC, 50 Hz power, and deliver an audio output of 30W. The product shall control and mix 2 unbalanced (5-pin DIN/phone jack) MIC and 2 unbalanced (RCA pin jack) AUX inputs. The amplifier shall include 100V or 4 ohm floating balanced outputs with screw terminal type connections. Frequency response shall be 50 Hz to 20 kHz, with less than 1% THD at 1/3 rated output. The S/N ratio shall be 60 dB or more (MIC ), 70 dB or more (AUX). The amplifier shall incorporate a muting function that allows MIC 1 to override by switch the other inputs (MIC 2 and AUX 1, 2) with 0 to 30 dB attenuation. The amplifier shall include Bass/Treble controls. Power and signal indicators shall be provided. Current limiter circuitry shall protect transistors against a failure due to overheat.

The panel shall be ABS black resin with hairline, and the case black steel plate. Dimensions shall be 350 (W) × 105 (H) × 240 (D) mm, and weight 3.5 kg .

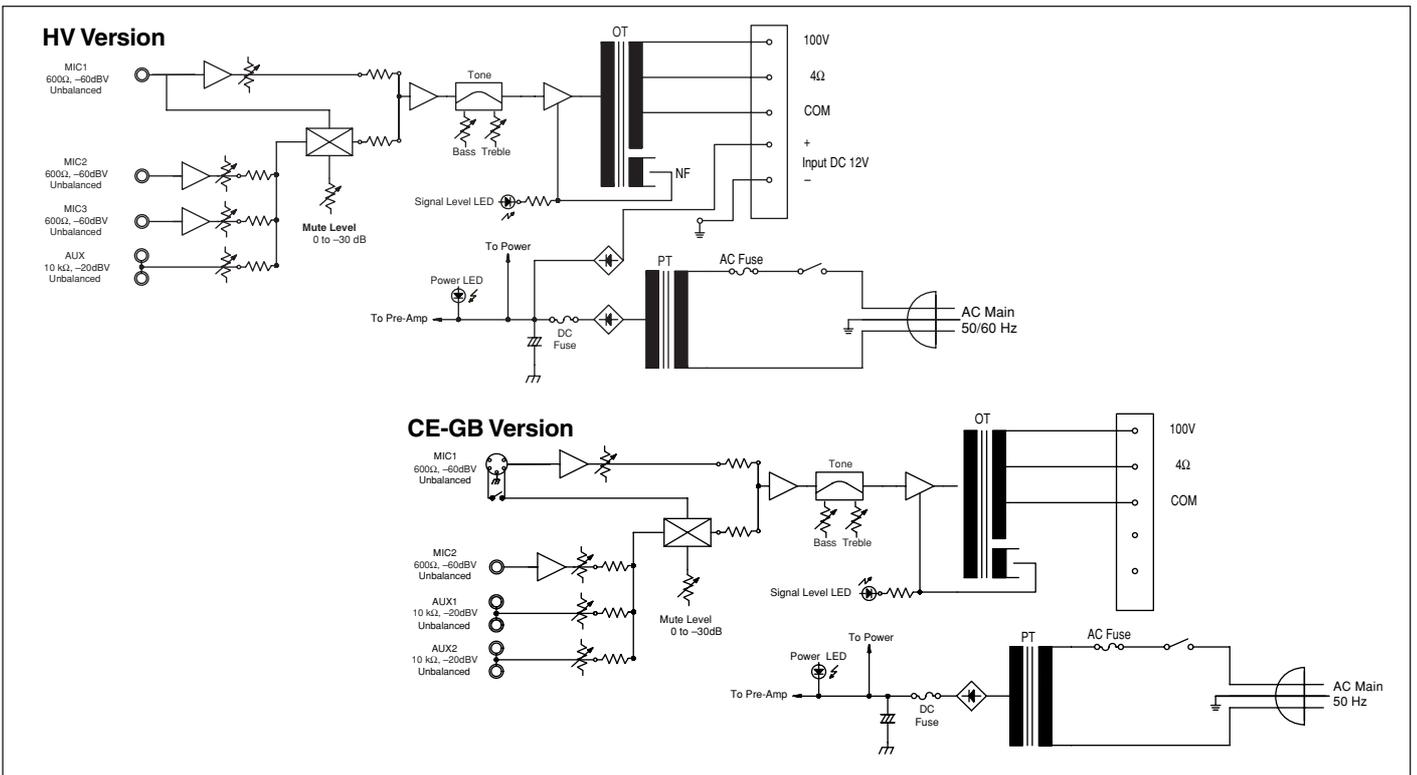
The package amplifier shall be TOA model A-230 or equivalent.

## SPECIFICATIONS

Version	HV Version	CE-GB Version
Power Source	220 – 230V AC, 50/60 Hz or 12 V DC	240V AC, 50Hz
Rated Output	30W	
Power Consumption	34W (AC operation at 1/8 rated output)	
Current Consumption	4.5A (DC operation at rated output)	—
Frequency Response	50Hz – 20kHz	
Distortion	1% or less at 1kHz, 1/3 rated power	
Input	MIC 1 – 3: -60dB* (1.0mV), 600Ω, unbalanced, phone jack AUX: -20dB* (100mV), 10kΩ, unbalanced, RCA pin jack	MIC 1: -60dB* (1.0mV), 600Ω, unbalanced, equivalent to 5-pin DIN type MIC 2: -60dB* (1.0mV), 600Ω, unbalanced, equivalent to phone jack type AUX 1, 2: -20dB* (100mV), 10kΩ, unbalanced, RCA pin jack
Output	Speaker out: Floating balanced High impedance: 330Ω (100V), Low impedance: 4Ω (11V)	
S/N Ratio	60dB or more (MIC 1 – 3), 70dB or more (AUX)	60dB or more (MIC 1, 2), 70dB or more (AUX 1, 2)
Tone Control	Bass: -10dB at 100Hz, Treble: -10dB at 10kHz	
Muting	MIC 1 overrides other Mic inputs and AUX inputs with 0 – 30dB attenuation, attenuation by MIC 1 input	MIC 1 overrides other Mic inputs and AUX inputs with 0 – 30dB attenuation, attenuation by switch
Indicator	Power LED, Signal LED	
Finish	Panel: ABS resin, black, hair line/Case: Steel plate, black	
Dimensions	350 (W) × 105 (H) × 240 (D)mm (13.78" × 3.97" × 9.45")	
Weight	3.5kg (7.72 lb)	

\*0dB = 1V

## BLOCK DIAGRAM



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