



BOOSTER AMPLIFIER



TBM-4120

The Booster Amplifiers are completely engineered with the latest advancement in audio technology. Vast improvements were made to the sonic performance and operation stability with current and thermal protection circuitry. The booster amplifiers provide wide frequency response, low THD level and high S/N ratio. The Booster Amplifier Series is also incorporated with toroidal transformer technology which reduces electromagnetic noise and improves power efficiency. It features 2 inputs; Program Input and Priority Input. The Priority Input which is used during emergency

paging will automatically override the Program Input, usually used for announcements and background music. It can operate on both AC mains power or a backup 24 Vdc power source, providing continuous uninterrupted operation even during a power failure.

FEATURES

- Low THD+N (less than 1%).
- Wide frequency response from 40 Hz to 18 kHz.
- Improved audio circuitry and power supply design for better sonic performance and power efficiency, creating less noise and heat generation.
- Robust design for uninterrupted operation, incorporating an improved circuit overload with load isolation and overheat protection.
- Friction-less Maglev technology fan cooled for long lifespan, low acoustic noise level and high temperature endurance.

- 0 dB balanced line input for Program and Priority Inputs with muting of Program Input when Priority Input is activated.
- Built-in relay for the purpose of overriding audio attenuator during emergency.
- Operates on both 240 Vac, 50 Hz mains or 24 Vdc battery supply

Technical Specification

	TBM-4120
Rated Power Output	4 x 120 W rms
Frequency Response at rated output	40 Hz to 18 kHz
Total Harmonic Distortion	less than 1% (at rated output, f=1 kHz)
Signal-to-Noise Ratio	Better than 90 dB (IEC A)
Input Connections	1 Program and 1 Priority Terminal (RJ 45)
Input Level	0 dB
Input Impedance	10 kΩ (balanced)
Load Impedance	84 Ω
Power Consumption	640 VA
Power Requirement	220~240 Vac mains 50/60 Hz or 24 Vdc
Dimension (W x H x D)	483 x 87 x 470 mm
Weight	23.2 kg
Operation Temperature	-10°C to 40°C
Storage Temperature	-40°C to 70°C
Relative Humidity	< 95%