

Power Amplifier

MAIN FEATURES

- Balanced line in/out (XLR-F and XLR-M sockets)
- Unbalanced line input (dual RCA socket)
- MBT 1101 microphone station input (RJ45 socket)
- Telephone/Emergency audio input for priority calls with adjustable threshold and sensitivity
- Front panel overall volume control and treble/bass controls
- Rear panel selector switch for enabling/disabling front-panel tone and volume controls
- Constant voltage (50/70/100V) or 8Ω impedance loudspeaker line output
- LED-type VU meter for clear and immediate monitoring of output power
- Contacts for activating precedence on line input
- Alerting signal (chime) with level control
- Selectable 230/115Vac and 24Vdc mains power supply



DESCRIPTION

The MPA 5120 booster has an RJ45 input for connection to MBT 1101 pre-amplified microphone bases via SFTP CAT.5E shielded cables. There is a special balanced input (TEL/EMERG) with a transformer and automatic priority activation (VOX) on the rear panel. Controls for adjusting the level and activation threshold are also located on the rear panel. This input can be used to connect the appropriate audio output of a telephone switchboard. This equipment is equipped with numerous protective devices against overloads and short circuits, including an output current peak-limiting circuit, a thermal circuit breaker inside the power transformer, a resettable thermal circuit breaker in contact with the power transistor heat sink, and mains fuses. Additionally, each unit is equipped with a cooling fan with automatic speed control, depending on the temperature of the heat sinks to which the power devices are attached.

TECHNICAL SPECIFICATIONS

GENERAL

Code		37490
Rated output power	W	120
Constant voltage outputs	V	100/70/50
Low impedance outputs	Ohm	8
Distortion at rated power		<1%

TONE CONTROLS

Bass @100Hz / Treble @10kHz	dB	±10 / ±10
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LINE INPUT

Sensitivity	mV	300
Impedance	Ohm	60k
S/N Ratio	dB	>77
Frequency response	Hz	30 - 20k

INPUTS

Sensitivity	mV	1250
S/N Ratio	dB	>75
Frequency response	Hz	230 - 13k

TELEPHONE INPUT

Sensitivity	mV	120
Impedance	Ohm	6k
S/N Ratio	dB	>75
Frequency response	Hz	230 - 13k

POWER SUPPLY

Mains power supply 230V ± 10% 50/60Hz	W/VA	P = 280 / A = 320
Mains power supply 115V ± 10% 50/60Hz	W/VA	P = 260 / A = 330
External DC power supply	V / A	24 / 6.6 (0.2A @ Pout=0W)

MECHANICAL SPECIFICATIONS

Net dimensions (WxHxD)	mm inch	432 x 88 x 272 17.01 x 3.46 x 10.71
Net weight	kg lb	8.60 18.95