

Class D Power Amplifiers

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


EN 54-16:2008
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Cert. Nr. 0068-CPR-001/2014

Declaration of Performance (DoP)
available on the website: www.fbt.it

DESCRIPTION

The MPA booster series has an RJ45 input for connection to MBT 1101 pre-amplified microphone bases simply by means of shielded SFTP CAT.5E cables. There is a special balanced input (TEL/EMERG) with a transformer and automatic activation of precedence (VOX) on the rear panel. Controls for adjusting the level and the activation threshold are present on the rear panel. This input can be used for connecting the appropriate audio output of a telephone switchboard. This equipment has a large number of devices for protection against overloads and short circuits (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, mains fuses). In addition, each unit has a cooling fan, with automatic control of the speed depending on the temperatures of the heat sinks to which the power devices are applied.

TECHNICAL SPECIFICATIONS

GENERAL		MPA 5240	MPA 5480
Code		37489	37491
Rated output power	W	240	480
Constant voltage outputs	V	50 / 70 / 100	50 / 70 / 100
Low impedance outputs	Ohm	8	8
Distortion at rated power		< 1%	< 1%

TONE CONTROLS

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

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

INPUTS

Sensitivity	mV	1250	320
S/N Ratio	dB	> 78	> 78
Frequency response	Hz	30 - 20k	30 - 20k

TELEPHONE INPUT		MPA 5240	MPA 5480
Sensitivity	mV	120	120
Impedance	Ohm	6k	6k
S/N Ratio	dB	> 75	> 75
Frequency response	Hz	230 - 13k	230 - 13k

POWER SUPPLY

Mains power supply 230V ± 10% 50/60Hz	W/VA	P = 535 / A = 610	P = 1160 / A = 1330
Mains power supply 115V ± 10% 50/60Hz	W/VA	P = 490 / A = 560	P = 1025 / A = 1170
External DC power supply		24W / 13.2A (0.2A @Pout = 0W)	24W / 33A (0.8A @Pout = 0W)

MECHANICAL SPECIFICATIONS

Net dimensions (WxHxD)	mm inch	432 x 88 x 272 17.01 x 3.46 x 10.71	432 x 88 x 272 17.01 x 3.46 x 10.71
Net weight	kg lb	11.60 25.57	16 35.27