

Public Address Mixer Amplifiers



MA30 30w 100v Line Amplifier

MA60 60w 100v Line Amplifier

MA120 120w 100v Line Amplifier

MA240 240w 100v Line Amplifier



	MA30 30w 100v Line Amplifier	MA60 60w 100v Line Amplifier	MA120 120w 100v Line Amplifier	MA240 240w 100v Line Amplifier
Product Code	Alpha MA30 / J30581	Alpha MA60 / J30666	Alpha MA120 / J30683	Alpha MA240 / J30717
Power Output	30w RMS	60w RMS	120w RMS	240w RMS
Output	4-16Ω, 70v, 100v	4-16Ω, 70v, 100v	4-16Ω, 70v, 100v	4-16Ω, 70v, 100v
Mic Inputs				
Sensitivity	-50/-2dB 2.5/500mV	-50/-2dB 2.5/500mV	-50/-2dB 2.5/500mV	-50/-2dB 2.5/500mV
S/N Ratio	>68dB	>68dB	>68dB	>68dB
Frequency Response	100/17.000Hz (-3dB)	100/17.000Hz (-3dB)	100/17.000Hz (-3dB)	100/17.000Hz (-3dB)
Phantom Power	48v	48v	48v	48v
Aux Inputs				
Tuner & Tape Input Sensitivity	200mV	200mV	200mV	200mV
Tuner & Tape Input Impedance	47KΩ	47KΩ	47KΩ	47KΩ
CD & Line Input Sensitivity	500mV	500mV	500mV	500mV
CD & Line Input Impedance	47KΩ	47KΩ	47KΩ	47KΩ
S/N Ratio	90dB	90dB	90dB	90dB
Frequency Response	40Hz - 20KHz	40Hz - 20KHz	40Hz - 20KHz	40Hz - 20KHz
Control				
Bass	±12dB	±12dB	±12dB	±12dB
Treble	±12dB	±12dB	±12dB	±12dB
Chime	2 Tone active for contact free in priority and BGM	2 Tone active for contact free in priority and BGM	2 Tone active for contact free in priority and BGM	2 Tone active for contact free in priority and BGM
Line Outputs				
Level/Impedance	775mV / 47KΩ	775mV / 47KΩ	775mV / 47KΩ	775mV / 47KΩ
Level/Impedance Recorder	200mV / 1KΩ	200mV / 1KΩ	200mV / 1KΩ	200mV / 1KΩ
Normal Distortion	<0.1%	<0.1%	<0.1%	<0.1%
Power Supply	230v AC / 50-60Hz	230v AC / 50-60Hz	230v AC / 50-60Hz	230v AC / 50-60Hz
Power Connection	IEC	IEC	IEC	IEC
Input Connector	4 x Balanced XLR MIC 4 x RCA Line switchable	4 x Balanced XLR MIC 4 x RCA Line switchable	4 x Balanced XLR MIC 4 x RCA Line switchable	4 x Balanced XLR MIC 4 x RCA Line switchable
Output Connector	1 x RCA Record Out 1 x RCA Pre Out 1 x Balanced XLR Phoenix	1 x RCA Record Out 1 x RCA Pre Out 1 x Balanced XLR Phoenix	1 x RCA Record Out 1 x RCA Pre Out 1 x Balanced XLR Phoenix	1 x RCA Record Out 1 x RCA Pre Out 1 x Balanced XLR Phoenix
Dimensions				
H	88mm	88mm	88mm	88mm
W	483mm	483mm	483mm	483mm
D	420mm	420mm	420mm	420mm
Weight	8.7kg	10.1kg	12.5kg	15.0kg

100 Volt Line Audio Power Amplifiers.

The Brooke Alpha™ MA 100v series is a range of public address amplifiers for applications such as restaurants, pubs, health clubs, offices, supermarkets and public buildings. They benefit from 100v line technology that does not require accurate speaker impedance calculations and matching, normally required with low impedance systems.

100 Volt Line Technologies

The Brooke MA 100v line amplifiers have a number of output configurations that will suit almost any configuration. If a quantity of low power loudspeakers are to be operated by the same audio source, the use of 100v loudspeakers should be employed. These have an integral step-down transformer that receive low current high voltage signals from lightweight cables and can be wired in parallel over substantial distances if required. The amplifier contains a high power step-up transformer that is very tolerant of the attached load impedance. It is still important that any installation is correctly planned and this service is available from your Brooke supplier.

Safety First

Brooke MA 100v amplifiers use electronic temperature monitoring that will operate the forced air cooling system in direct proportion to the temperature of the key components. Over-temperature trips add a second level of system protection if the air vents become obstructed. Anti-clipping audio circuitry ensures that overdriving the input will not overdrive the amplifiers and this helps to protect the connected loudspeakers. In addition, over current protection circuits also help to protect loudspeakers from damage.

The Brooke MA 100v Range

Models are for 19" 2U rack mounting or free standing. They are 420mm deep and are available in four versions: MA20 (20 watts), MA60 (60 watts), MA120 (120 watts) and the MA240 (240 watts). All models feature: variable gain front panel control; treble and bass controls; four microphone level controls; aux volume control; aux source selector buttons with LED indicators; LED signal level indicators; four XLR / jack balanced microphone inputs with pre-output; phono inputs for line, tuner, CD and tape inputs; 2 aux phono outputs; XLR output loudspeaker connection for common, low impedance, 70v and 100v outputs; metal case with integral rack mount ears; front panel protection handles and a chime facility.

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