

SA60

60W, 6 Channel Mixer Amplifier

Description

The SA60 is a high quality system amplifier which can be powered by AC mains or 24 volts DC. It is sturdily constructed with a solid steel chassis and standard rack mounting front panel. Generous heat sinking and a conservatively rated 125vA power transformer ensure that the amplifier comfortably meets specifications.

Inputs

The SA60 features six universal channels with separate channel gain controls. Each channel will accept balanced microphone or unbalanced line and auxiliary inputs. The unit has industry standard XLR microphone sockets and dual RCA auxiliary sockets for each channel.

Outputs

The SA60 features 100 volt, 70 volt & 8 ohm isolated transformer outputs. A separate male XLR socket provides a 700mV (max.) balanced transformer isolated output for connection to additional power amplifiers. A separate tape recorder output is supplied by means of dual RCA sockets.

Insert Point

A 6.35mm insert jack between the pre-amp and power-amp stage is accessible on the rear panel. It is ideal for a Graphic EQ, FBX Feedback Exterminator or any other type of line in/line out processor.

DC Operation

The DC input allows the SA60 to be powered by an external 24 volt battery supply.

Tone Generator

A four tone module (ATC5488) is an optional accessory. The unit plugs in to a receptacle inside the amplifier. A choice of any one of four tones may be selected including Bell, Pre-announce chime, Alert tone (AS2220.1) and Evacuate tone (AS2220.1). Any of the tones may be activated from a remote point by means of external connections which may be wired to the rear panel of the amplifier. Activation of any tone automatically mutes inputs 2 to 6 of the amplifier.

Muting

The SA60 is equipped with a multi-pin receptacle on the circuit board which accommodates the optional TX3014 two channel muting module. With the TX3014 installed, signal present on channel 1 will mute all remaining inputs (2 to 6). When signal is present on channel 2, inputs 3 to 6 are muted. A single channel muting module TX3010 is also available. This unit plugs into the same socket within the amplifier and will provide muting of channels 2 to 6 when signal is present on channel 1.

Protection

Australian Monitor Installation Series amplifiers feature a protection network that provides greater stability and performance. Our amplifiers are recognised worldwide for their reliability and this is due to the extensive levels of current limiting which protect the amplifiers from both overload and overdrive conditions.



Power Output	60 Watts RMS
Maximum Load	170 Ohms @ 100 Volts
Power Bandwidth	60Hz - 15kHz <0.5% THD
Frequency Response	60Hz - 15kHz (\pm 3dB)
Total Harmonic Distortion	0.5% @ 1kHz rated power
Signal To Noise Ratio	-72dB with all controls at their centre position
Tone Controls	Bass @ 100Hz: Boost +12dB, Cut -12dB; Treble @ 10kHz: Boost +9dB, Cut -9dB
Inputs	Six mic/aux universal inputs with XLR female mic sockets and dual RCA sockets. TRS (6.35mm) Jack Insert point.
Input Sensitivity	Mic: 0.6mV @ 200 Ohms all inputs; Aux Inputs 1 - 5: 40mV @ 47K Ohms; Aux Input 6: 200mV @ 47K Ohms (for CD player or similar high level input)
Insert Point	600mV in/out
Outputs	Speaker: 100, 70 Volts, 8 Ohms; Line: Balanced 700mV @ 10K Ohm; Tape: 350mV @ 10K Ohms
Phantom Power	15V DC on all mic channels. Internal on/off switch
Controls	6 Input channel gain controls, 1 Bass control, 1 Treble control, 1 Master gain control, 1 Power on/off switch
Indicators	LED Level VU, Power "on" LED
Power Source	AC: 240V - 50Hz, 110V - 60Hz (special) 3 pin IEC Connector; DC: 24 Volts
Power Consumption	120 Watts
Protection	AC and DC fuses
Dimensions/Weight	88mm H x 480mm W x 330mm D (Chassis Dimensions Only). 12kg
Tone Generators	Optional four tone module ATC5488
Muting	Optional TX3010 or TX3014 muting modules

ARCHITECTURAL AND ENGINEERING SPECIFICATIONS

The mixer amplifier shall have six universal inputs, each with a balanced microphone with XLR female socket, and dual RCA line/auxiliary sockets. Auxiliary inputs 1 - 5 shall have a sensitivity of 40 while input 6 shall have a sensitivity of 200mV to accommodate a CD or other high level input.

The master section shall include one master volume control, two EQ controls, one with 12dB of boost and cut at 100Hz and the other with 9dB of boost and cut at 10kHz. A power on/off switch with blue "on" LED and an LED display Vu graduated from +21dB to -3dB shall form part of this section. The amplifier chassis shall be solidly constructed, suitable for rack mounting in a standard 19" width rack without the need for additional rack mounting accessories.

Speaker outputs will be transformer isolated and comprise, 100 volts, 70 volt, & 8 ohms. The amplifier must be capable of delivering 60 watts RMS at 100 volts into a 170 ohm inductive load from mains or 24V DC, with less than 0.5% distortion at 1kHz and with system hum and noise of less than -72dB.

The amplifier shall be an Australian Monitor Installation Series model SA60.



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