



## ARCHITECTS SPECIFICATIONS

### SRA-120

The power amplifier, being of two channels, shall deliver a minimum power of 45 watts RMS per channel into 8 ohm loads and 60 watts RMS per channel into 4 ohms. When switched into Bridged-Mono mode, the amplifier shall deliver a total of 120 watts RMS into 8 ohms. The amplifier shall be immune to damage from shorted, open, or mismatched loads and shall feature independent thermal protection, turn on delay, and instantaneous turn-off. The amplifier shall have a gain of 26 dB  $\pm$  .2dB per channel. The input sensitivity shall be selectable between .775Vrms or .245Vrms via a rear panel switch. Frequency response shall be 20Hz to 20kHz  $\pm$  .2dB. The amplifier shall be stable into any load, including pure capacitors and inductors. Hum and noise shall be at least 100dB below full output and SMPTE intermodulation distortion shall be less than .01% at full output. To minimize hum and reduce overall weight, the unit shall utilize a toroidal power supply transformer.

The amplifier shall have rear panel switching for mono or stereo and bridging modes. The inputs shall be of balanced bridging type with both 1/4" phone and

barrier strip connections located on the rear panel of the unit. A ground lift strap shall be provided to float the input ground from chassis ground if necessary. An input jack on the front panel shall be provided for connection of stereo headphones. A separate attenuator control for each channel shall also be located on the front panel. There shall be status L.E.D.'s for each channel on the front panel of the amplifier to indicate signal present, clip alert, and "protect mode". Power requirements of the amplifier shall be 350W max, 30W idle @ 120VAC, 50Hz-60Hz. For use in other countries, the unit shall also be available as a 240VAC model. The unit shall be one rack space (1.75") high and no more than 10" deep. The amplifier must be convection-cooled, with large, extruded aluminum heat sinks with vertically oriented fins located on each side of the unit. The shipping weight of the unit shall be 20 pounds. The amplifier shall be covered under a full limited warranty of not less than five years. The amplifier must be made in the USA. The amplifier shall be the model SRA-120, manufactured by Ashly Audio, Inc. of Rochester, New York.

### Features:

- Convection Cooled
- Class-A Full Complementary Front End
- Stereo, Mono & Bridging Modes
- Barrier Strip and 1/4" Inputs
- Input Sensitivity Select Switch
- Turn-on Delay
- Instantaneous Turn-off
- Independent Thermal Protection
- 5-Year Worry-Free Warranty

## General Specifications SRA-120

EIA SPECIFICATION ( $\pm 1\text{dB}$ ,  $<1\%$  THD, 20Hz-20kHz)

Stereo (Rated Per Channel)

4 ohm: 60W

8 ohm: 45W

Mono Bridged

8 ohm: 120W

FTC SPECIFICATION

( $< 0.1\%$  SMPTE IM)

Stereo (Rated Per Channel)

4 ohm: 55W

8 ohm: 40W

Mono Bridged

8 ohm: 110W

Total Harmonic Distortion:

Stereo @ 35W per channel into 8 ohm)  $< .01\%$  1kHz,  $< .05\%$  20Hz-20kHz

IM Distortion:

(stereo @ 35W per channel into 8 ohm)  $< .01\%$

Damping Factor:

$>200$ , 8 ohm,  $<1\text{kHz}$

Slew Rate:

(Stereo Operation)  $>10\text{V}/\mu\text{S}$

(Mono Bridged Operation)  $>20\text{V}/\mu\text{S}$

Frequency Response:  $\pm 0.2\text{dB}$  (35W/ch, 20Hz-20kHz)

Output Noise & Hum: (20Hz-20kHz unweighted) 100 dB

below full output

Input Impedance: 20K ohm balanced

Input Sensitivity: (switchable) .775Vrms or .245Vrms

Voltage Gain: (switchable) 26.0dB or 36.0dB

Output Protection: Instantaneous protection from shorted output and voltage-current overload limiting.

Load Protection: 2 second output turn-on delay and instantaneous turn-off to protect load from transients. Subsonic and ultrasonic filtering.

Thermal Protection: Thermal sensing on each channel will turn off outputs independently under overheat conditions

Power Requirements: 350W max, 30W idle @ 120VAC, 50Hz-60Hz. (240VAC available)

Cooling: Convection cooled

Connectors:

Input: 1/4" phone jacks and barrier strip.

Output: 5-way speaker binding posts, 1/4" headphone jack

Controls: Rear panel: stereo/mono switch, bridge/normal switch, sensitivity switch and ground lift jumper. Front panel: two attenuator controls and front panel power switch.

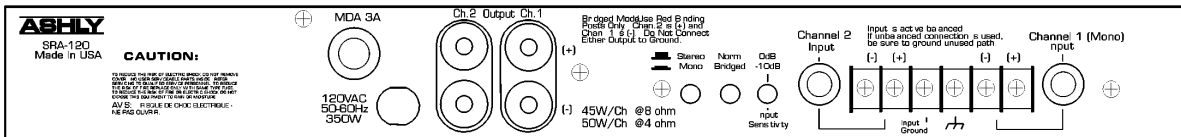
Indicators: Front panel signal present, clip and protect

LEDs for each channel

Dimensions: 19"L x 10"D x 1.75"H

Shipping Weight: 20lbs

## Rear Panel SRA-120



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