

**Technical Specification**

**FEATURES:**

- INPUT VOLUME CONTROL
- POWER AND CLIPPING INDICATOR
- 2 CHANNEL OR BRIDGE MODE OPERATION
- LOW FREQUENCY ROLL OFF (OPTIONAL)
- RACK MOUNT CAPABILITY (KIT OPTIONAL)
- 4 LEVELS OF PROTECTION



**DESCRIPTION:**

A two-channel power amplifier that requires only two rack spaces in a 19-inch equipment cabinet. Designed for use in a wide variety of applications requiring high quality, reliable audio amplification. The power amplifier may be operated in a two-channel mode with 100 Watts per channel output or in a bridged mono mode with a single 200 Watt output. The power amplifier offers: power on and clipping indicators for each channel, stereo or bridged mono operation, volume control for each channel, phono jack input connections and screwdriver terminals for speaker connections.

The amplifier enclosure is constructed with 16-gauge steel and finished in metallic charcoal gray. The optional SMA-RMK rack mount kit is required to mount in a 19-inch equipment cabinet. Contour switches located on the back of the unit provide low frequency roll off for horn loads.

**Specifications:**

**INPUT IMPEDANCE**

10k Ohm

**TYPE OUTPUTS**

2 - Channel Mode, 2 Ohm  
Bridge Mode, 4 Ohm

**WATTAGE OUTPUT**

100 Watts RMS Per Channel  
200 Watts RMS Bridged

**FREQUENCY RESPONSE**

50 Hz to 25 kHz  $\pm$  2 dB

**DISTORTION**

< 0.5% @ 1 kHz Rated Output

**SIGNAL-TO-NOISE**

> 80 dB

**SENSITIVITY**

500 mV<sub>RMS</sub>

**CONTOUR ROLL OFF**

300 Hz, 6 dB Per Octave

**POWER REQUIREMENTS**

120 Vac, 360 Watts

**DIMENSIONS AND WEIGHT**

17.125" W x 3.5" H x 16" D  
(43.5 cm x 8.89 cm x 40.64 cm)  
Weight: 28.5 lbs. (12.93 kg)

**MOUNTING**

Shelf or Rack (2 RU) with optional Rack Mount Kit

**ACCESSORIES**

**SMB-101** - Wall or Shelf Mount 100 Watt 2-Channel Transformer Unit (25/70/100 Volt)

10" W x 4.5" H x 7" D (25.4 cm x 11.43 cm x 17.78 cm)  
13.2 lbs. (5.99 kg)

**SMB-102** - Wall or Shelf Mount 200 Watt 1-Channel Transformer Unit (70/100 Volt)

10" W x 4.5" H x 7" D (25.4 cm x 11.43 cm x 17.78 cm)  
11.9 lbs. (5.4 kg)

**SMB-201** - Rack Mount 100 Watt 2-Channel Transformer Unit (25/70/100 Volt) – 3 RU

19" W x 5.25" H x 3.5" D (48.26 cm x 13.34 cm x 8.89 cm)  
12.8 lbs. (5.81 kg)

**SMB-202** - Rack Mount 200 Watt 1-Channel Transformer Unit (70/100 Volt) – 3 RU

19" W x 5.25" H x 4" D (48.26 cm x 13.34 cm x 10.16 cm)  
11.2 lbs. (5.08 kg)

**SMA-RMK** - Rack Mount Kit – Extends width of SMB-200 for 19" rack mount applications

**Technical Specification**  
**ARCHITECTS' AND ENGINEERS**

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The SMB-200 booster amplifier shall be a 2-channel 200 Watt power amplifier. The amplifier shall provide 2 separate 100 Watt channels and also be capable of providing 200 Watts in bridge mode operation. A switch located on the back of the amplifier shall select between 2-channel operation and bridge mode operation.

A separate volume control shall be provided for each input. The 2-channel amplifier shall have separate power on and clipping indicators for each channel. The unit shall provide phono jacks for the input connections and screw terminals for output connections.

The 2-channel amplifier shall meet the following performance specifications. The amplifier shall meet its rated output at less than 0.5% THD. Frequency response shall be 50 Hz to 25 kHz +/- 2 dB. The inputs shall be 10k Ohm impedance with a sensitivity of 500 mV<sub>RMS</sub>. The signal to noise ratio shall be >80 dB. When the contour switch is in the "ON" position the low frequency roll off shall start at 300 Hz and continue at a rate of 6 dB per octave. The output impedance of the amplifier shall be 2 Ohms per channel and 4 Ohms in bridge mode. The amplifier shall have four levels of protection; ac circuit breakers for each channel, automatic overload limiting circuit protection for each channel, thermal overload protection for each channel and fast response fuses in the dc power supply for each channel. Heat sinks shall be enclosed within the housing with adequate ventilation provided for cooling.

The unit shall be shelf mount or rack mountable using an optional rack mount kit. The amplifier finish shall be metallic charcoal gray with white graphics. The amplifier dimensions shall be 17.125" W x 3.5" H x 16.0" D. (43.5 cm x 8.89 cm x 40.64 cm). The weight shall be 28.5 lbs. (12.93 kg).

**CLARITY LIMITED WARRANTY**

Clarity warrants its products only to the original purchaser, for its own use, to be free from defects in materials and workmanship under conditions of normal use and service for a period of one year from the date of shipment. This Limited Warranty obligation shall be limited to the replacement, repair or refund of any such defective device within the warranty period, provided that:

1. inspection by Clarity indicates the validity of the claim;
2. the defect is not the result of damage, misuse or negligence after the original shipment;
3. the product has not been altered in any way or repaired by others and that factory sealed units are unopened (a service charge plus parts and labor will be applied to units defaced or physically damaged);
4. freight charges for the return of products to Clarity are prepaid;
5. all units 'out of warranty' are subject to a service charge. The service charge will cover minor repairs (major repairs will be subject to additional charges for parts and labor).

**This Limited Warranty is in lieu of and excludes all other warranties, expressed or implied and in no event shall Clarity be liable for any anticipated profits, consequential damages, loss of time or other losses incurred by the buyer in connection with the purchase, operation, maintenance, installation, removal or use of the product. The maximum liability of Clarity under this warranty is limited to the purchase price of the specific Product covered by the warranty.**

**Disclaimer.** Except for the Limited Warranty provided herein, the product is provided "as-is" without any warranty of any kind whatsoever including, without limitation, any **WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT.**

This warranty specifically excludes damage incurred in shipment. In the event a product is received in damaged condition, the carrier should be notified immediately. Claims for such damage should be filed with the carrier involved in accordance with the F.O.B. point.