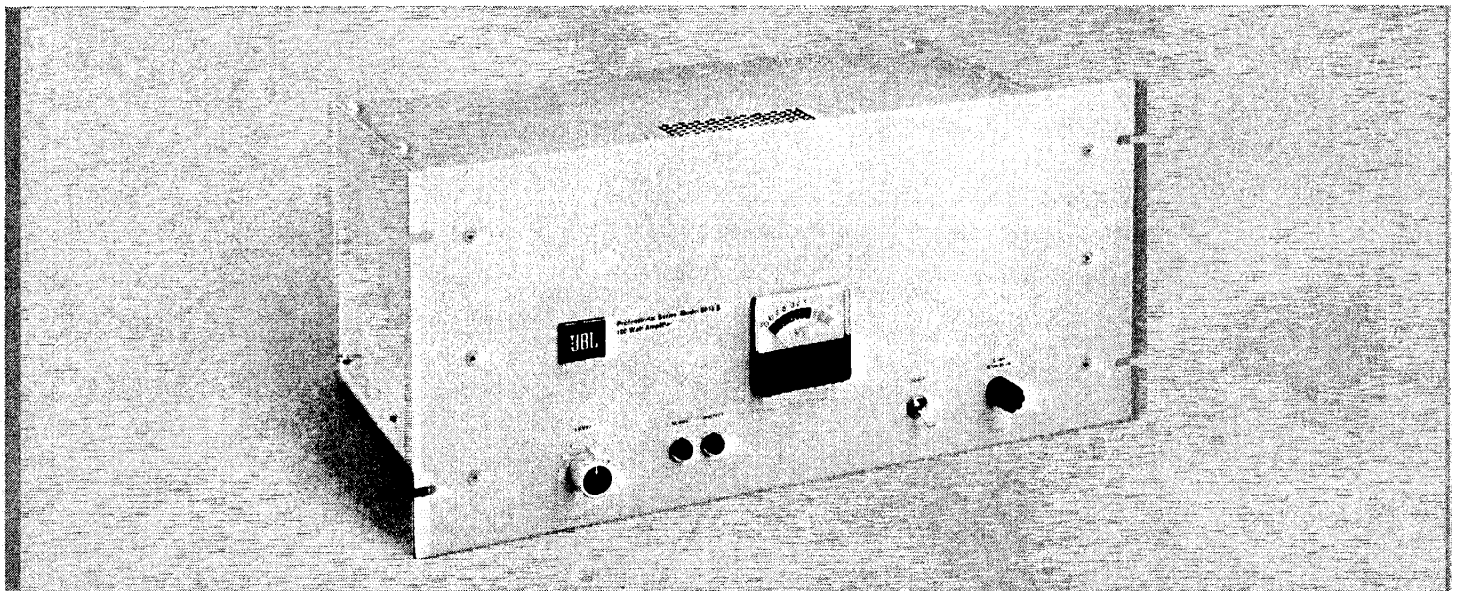


Professional Series Model 6010 B Power Amplifier

100 watts @ less than
1.0% THD 40-12 kHz
85 dB signal to noise ratio
Power output meter
Forced air cooled



The JBL 6010B is a highly reliable, conservatively rated amplifier, designed for professional sound engineering applications where a high degree of performance is required.

The circuitry has been carefully designed to reduce the possibility of failure within the specified environmental and electrical conditions. A protective circuit is utilized in this amplifier which makes it virtually impossible to damage it under any conditions of overload, including shorted or grossly mismatched load, inductive load at low frequencies, capacitive load at high frequencies, excessive input signal, white noise or installation errors.

The JBL 6010B can be overdriven by at least ten times normal input voltage, from 40-12 kHz, and eventually produces square waves increasing in RMS value up to about 160W at which point the output actually begins to decrease.

The DC fuse is intended as a protective device for the power supply in the event of output stage malfunction. It is not intended to protect the output transistors which are guarded by the special circuitry provided. As an indication of high frequency stability, the JBL 6010B

draws only 30% more power from the AC line at 12 kHz, 100W, than at 1 kHz for at least one hour without malfunction or entering the "protect" mode.

In the event of fan failure, the thermal switch will activate if the heat sink temperature exceeds 200° F. The hum and noise level is extremely low—at least 85 dB below maximum output.

The 6010B amplifier is designed for maximum flexibility in varying input and output arrangements. A standard unbalanced 50K input is provided which can be converted to balanced line bridging or matching with the installation of the accessory 5195 transformer. A low cut filter switch reduces the possibility of damaging horns. All the power outputs are balanced and the bridging output unbalanced.

JBL

Model 6010B—Power Amplifier

Architectural Specifications

The amplifier shall be capable of delivering an output of 100W RMS with less than 1.0% THD, 40-12,000 Hz, and 150W RMS from 50 to 8000 Hz with less than 4% THD.

The high impedance program input shall be provided with a socket to accommodate a balanced line with isolation. Matching and bridging inputs shall be available. Screw type terminal board shall be provided for the balanced line inputs as well as for the high impedance unbalanced input. In addition, a phono plug shall be provided for the high impedance input. A low frequency filter switch shall be provided.

The amplifier shall have balanced 8-ohm, 16-ohm and 70.7-volt outputs on a screw type terminal board listed by Underwriters' Laboratories, Inc. for class 2 wiring.

The amplifier shall be equipped with a protective circuit which will prevent damage due to overload. A power output meter shall be standard equipment.

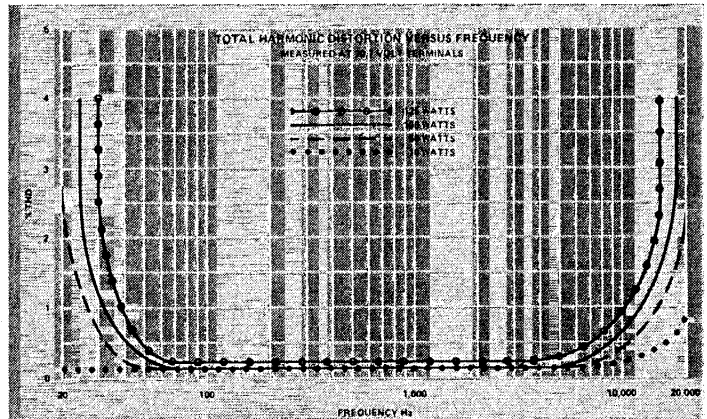
The amplifier shall operate on 120/240 VAC, 50/60 Hz power source.

The performance specifications shall be as listed under SPECIFICATIONS and shall be met or exceeded.

The amplifier shall be listed by the Underwriters' Laboratories, Inc.

The amplifier shall be JBL Model 6010B.

| Specifications | |
|--------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Power Gain | 70 dB |
| Input Sensitivity | |
| Unbalanced HI-Z (50,000 ohms) | 0.7 volts |
| Balanced Bridging, with 6195 Transformer (15,000 ohms) | 0.383 volts |
| Balanced Matching, with 6195 Transformer (600 ohms) | 0.077 volts |
| Power Output | 100 Watts at less than 1.0% THD, 40 to 12,000 Hz 150 Watts at less than 4% THD, 50 to 8000 Hz |
| Power Bandwidth (At Rated Power) | 40 to 12,000 Hz |
| Total Harmonic Distortion | Less than 1.0% |
| Intermodulation Distortion (SMPTE Standard) | |
| Full Power | Less than 2.0% |
| 10 Watts RMS | Less than 1.0% |
| 0.15 Watts RMS | Less than 1.0% |
| Frequency Response (Measured at 1 Watt) | 20 to 20,000 Hz, ± 2 dB |
| Load Impedance | |
| Transformer Isolated | 8, 16 or 50 ohms |
| Unbalanced Direct Output | 4 Ohms |
| Load Voltage (Full Power) | |
| 8-ohm output | 20.0 volts |
| 16-ohm output | 28.3 volts |
| 40-ohm output | 40.0 volts |
| 70.7 volt output | 70.7 volts |
| Output Regulation | Better than 15% |
| Signal/Noise Ratio | Better than 85 dB below full power |
| Low Cut Filter (Rear Panel Slide Switch) | 6 dB/octave below 250 Hz |
| Front Panel Controls | |
| Power | Toggle |
| Level | Continuous |
| Indicators | |
| Normal | Red |
| Protect | Green |
| Level Meter | 80 Watts output at "0" |
| Power Supply | 120/240 VAC, 50/60 Hz |
| Power Consumption | |
| Quiescent | 35 Watts |
| 33% Output | 138 Watts |
| Full Power | 226 Watts |
| Fuse | 5-amp, slow-blow, 3AG |
| Maximum Ambient Operating Temperature | 140° F 60° C |
| Special Features | Overload protection circuit Forced air cooling AC convenience outlet (unswitched) |
| Dimensions | |
| Including Controls | 9-3/4" x 19" x 11-5/8" deep 22.2 x 48.3 x 29.5 cm deep |
| Depth Behind Panel | 10-3/4" 27.3 cm |
| Mounting | 6 EIA standard rack spaces |
| Panel Finish | Semi-gloss baked enamel, dark gray |
| Net Weight | 46 lbs 21 kg |
| Shipping Weight | 52 lbs 24 kg |
| Warranty | 2 years |
| Liting | Underwriters' Laboratories, Inc. |
| Accessory | 6195 Matching/Bridging Transformer |



Professional Series
Professional Division

James B. Lansing Sound, Inc., 8500 Balboa Boulevard, Northridge, California 91329.

PB6010B/6-77