



High Quality

**TRANSPORTABLE
AMPLIFIERS**

Pam

Transportable Amplifiers

TYPE 602/A—50-WATT AMPLIFIER

TYPE 601/H—25-WATT AMPLIFIER

TYPE 600/A—10-12-WATT AMPLIFIER

For whatever application you are considering the use of an amplifier, you may rest assured that there is a PAM which will meet your requirement. The PAM range of amplifiers is backed by twenty years' experience in the sound reproduction field and each model embodies all that is best in modern design.

You are interested in reliability, ease of adjustment and tone quality. This equipment achieves these essentials AND includes many special features of importance to the Operator and Engineer alike.

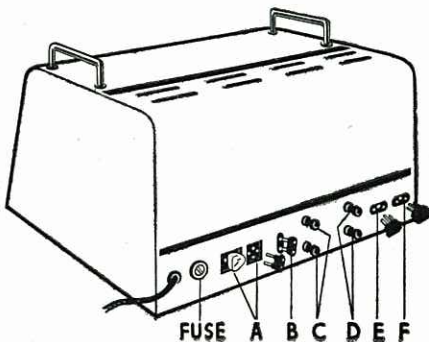
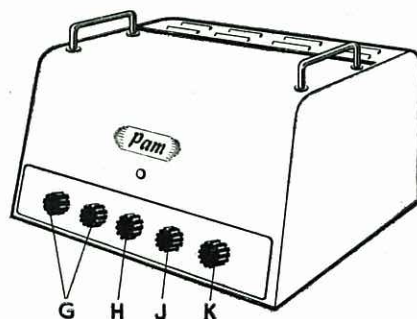
SPECIAL FEATURES

Mains Voltage Adjustment: By moving plugs *A* to the correct setting the amplifiers are able to operate on any 50 cycle mains supply between 100 and 250 volts.

Output: *C* The common voltage system is used. When delivering its full rated output each amplifier supplies 100 volts to the loudspeakers. Individual loudspeakers fitted with matching transformers may be connected in parallel and arranged so that each unit gives just the required amount of sound power.

No complicated series-parallel circuits are necessary when connecting a number of loudspeakers to one amplifier. Additional loudspeakers may be connected without disturbing the original matching.

Gram. or Radio Input: The 3-pin socket *E* provides two inputs to cater for the wide differences in output voltage produced by the various makes and types of gramophone pick-up and radio tuner. The proper choice of input ensures adequate amplification for the modern lightweight types of pick-up and safeguards against distortion with radio tuners and relatively high voltage pick-ups. Thus the best results may be obtained from all types.



SPECIAL FEATURES (continued)

Microphone Input: There is a separate 3-pin socket *F* for microphone. An input impedance of 30 ohms has been chosen which allows the microphone to be used at a considerable distance from the amplifier without excessive loss.

Mixing: Separate microphone and radio/gramophone volume controls *G* are provided. Thus announcements may be made against a background of music and the relative volume levels simply adjusted.

Tone Balance: Bass *H* and Treble *J* response can be adjusted independently to suit the prevailing acoustics, the speaker's voice, the Long Playing and Standard type of record or the radio programme.

Gramophone Mains Supply: To avoid inconveniently long trailing leads a gramophone motor supply socket *B* is provided at the back of the amplifier. The mains current to this socket is controlled by the on/off switch *K* of the amplifier which acts as a safeguard against the gramophone motor being left running inadvertently.

Maintenance: Testing and servicing is made simple by designing the amplifiers with all component connections at one level. There is no necessity for constant inversion of the chassis to reach scattered test points.

Remote Control: A socket is provided on all 50 and 25-watt amplifiers to take a simple plug-in relay. This relay, which may be purchased as an extra, gives over-riding priority to the microphone over any other input. Thus a battery and remote switch connected to terminals *D* allow the music to be muted for a microphone announcement without adjustment of the volume controls.

Tropicalisation: All the amplifiers are suitable for Export.

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SPECIFICATION :

50-WATT AMPLIFIER TYPE 602/A

Output : 50W. @ 100V.

Distortion : Less than $2\frac{1}{2}\%$ @ 1000 c/s.

Sensitivity : Mic. 300 μ V for 50W @ 1000 c/s.

Gram or Radio: 0.05V or 0.27V for 50W @ 1000 c/s.

Input Impedances : Mic. 30 ohms.

Radio or Gram: 220,000 ohms either input.

Noise Level : Both vol. controls at Min. better than -60dBs.

Gram vol. control at Max. better than -50dBs.

Mic. vol. control at Max. better than -60dBs.

Frequency Characteristics : As plotted.

Valves : 2 EF37A; 1 EF37; 1 ECC35; 4 EL37; 2 GZ32.

Mains Consumption : Full Drive 315 V.A.

Quiescent 270 V.A.

Dimensions : $16\frac{1}{2}'' \times 14\frac{1}{2}'' \times 11\frac{1}{2}''$ high (including handles etc.)

Weight : 58 lbs.

SPECIFICATION :

25-WATT AMPLIFIER TYPE 601H

Output : 25W. @ 100V.

Distortion : Less than $1\frac{1}{2}\%$ @ 1000 c/s.

Sensitivity : Mic. 300 μ V for 25W. @ 1000 c/s.

Radio or Gram 0.05V. or 0.27V.

Input Impedances : Mic. 30 ohms.

Radio or Gram: 220,000 ohms either input.

Noise Level : Both vol. controls down, better than -60dBs.

Gram vol. control at Max. better than -60dBs.

Mic. vol. control at Max. better than -50dBs.

Frequency Characteristics : As plotted.

Valves : 2 EF37A; 1 EF37; 1 ECC35; 2 EL37; 1 GZ32.

Mains Consumption : Full Drive 140 V.A.

Quiescent 120 V.A.

Dimensions : $16\frac{1}{2}'' \times 13\frac{1}{2}'' \times 10''$ (including handles etc.)

Weight : 40 lbs.

SPECIFICATION :

10-12-WATT AMPLIFIER TYPE 600/A

Output : 100V. at full output.

Sensitivity : Mic. 540 μ V for 12W. @ 1000 c/s.

Gram 0.1V. for 12W. @ 1000 c/s.

Input Impedances : Mic. 30 ohms.

Gram 220,000 ohms.

Noise Level : Both vol. controls at Min. better than -66dBs.

Gram vol. control at Max. better than -65dBs.

Mic. vol. control at Max. better than -63dBs.

Both vol. control at Max. better than -63dBs.

Frequency Characteristics : As plotted.

Tone Control Range : Bass 0 to -14dBs. at 100 c/s.

Treble 0 to -26dBs. at 10 Kc/s.

Valves : 2 EF37A; 1 ECC35; 2 KT61; 1 GZ32.

Mains Consumption : Full Drive 77 V.A.

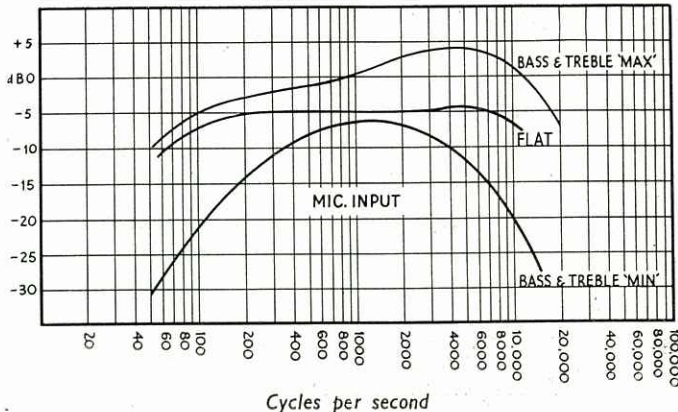
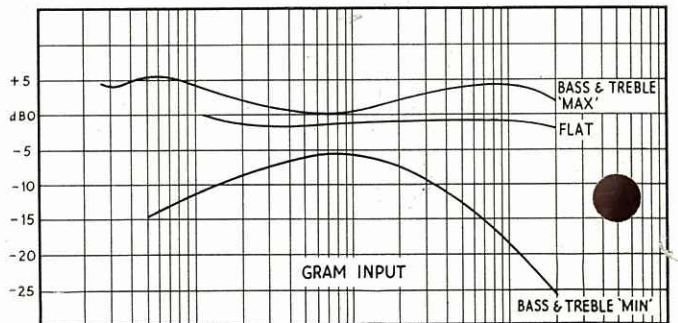
Quiescent 75 V.A.

Dimensions : $15\frac{3}{8}'' \times 11'' \times 7\frac{1}{8}''$ high (including handles etc.)

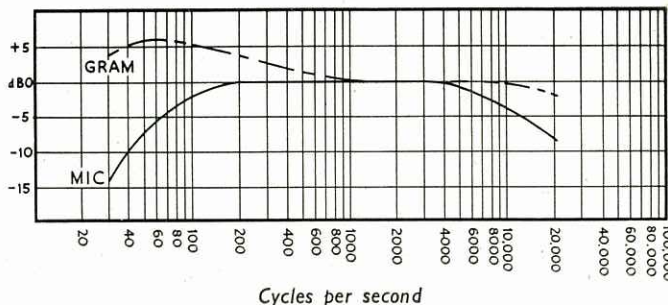
Weight : 17 lbs.

FREQUENCY RESPONSE CURVES

Amplifiers Type 602/A and 601/H



Amplifier Type 600/A



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