



A287F FOR RACK MOUNTING

A287FS FOR WALL MOUNTING



A-287F AMPLIFIER

The A-287F Amplifier is an AC operated single stage Class A push-pull amplifier. This amplifier was originally developed for motion picture sound uses and will meet the strictest requirements for high quality and reliability. It is particularly offered for high quality music reproducing systems, for disc recording where large amounts of very low and high frequency power are required, for electronic organs and public address applications where the most discriminating audiences are catered to.

This amplifier uses either two 845 or two 284-D vacuum tubes in the push-pull stage and incorporates a power supply using two 866-A rectifier tubes.

The input transformer has taps so that an impedance of 500, 250, 125, 56 and 14 ohms is provided. The gain of the amplifier is 15 db on all taps. The output impedance is tapped so that it will operate efficiently into all load impedances between 3 and 48 ohms.

Both the input and output transformers have been specially designed so that the amplifier would deliver a minimum of 75 watts in the mid range. From 40 to 10,000 cycles, the undistorted power output varies by not more than 1 db from its rated 75 watts when working into its nominal load impedance. From 20 to 20,000 cycles, the undistorted output will vary by not more than 3 db from 75 watts.

A tap is provided on the plate transformer to reduce the power output from 75 to 50 watts where the latter power is sufficient.

Over a 40 db operating range the amplifier is flat from 20 to 20,000 cycles.

SEE OTHER SIDE





A-287F AMPLIFIER

The circuit components of the A-287F amplifier are mounted on both sides of a $\frac{3}{8}$ " thick steel tank plate and the entire amplifier is enclosed in a sturdy perforated metal enclosure designed primarily for mounting on a standard relay rack. Both the front and rear covers are readily removable for inspection and test of circuit elements. The front cover is equipped with a safety door switch which automatically turns off the current when the cover is removed so as to protect the operator from shock when replacing tubes, etc. The front operating panel is equipped with meter and switch for measuring the space current in either of the push-pull vacuum tubes. The amplifier is fused internally.

The A-287F amplifier requires an input of a minimum of 5 watts of undistorted power. The Altec Lansing A-126 and A-127 series amplifiers are particularly adaptable for driving the A-287F.

SPECIFICATIONS

GAIN	15 db. from all input impedances
FREQUENCY RANGE	Response will be within 1 db from 20 to 20,000 ohms.
POWER OUTPUT	75 watts with less than 8% intermodulation (2% total harmonics) When strapped for reduced plate voltage power output 50 watts
NOISE LEVEL	20 db below .001 watt or 68 db below rated maximum power
IMPEDANCE	Input 14, 56, 125, 220 and 500 ohms. The internal output impedance of the amplifier is 18, 9, 4.5 and 2.25 ohms, depending upon the tap used. These impedances are intended to work into loads of 24/48, 12/24, 6/12 and 3/6 ohms. Maximum power is obtained when the amplifier works into 36, 18, 9 and 4.5 ohms.
POWER SUPPLY	105-130 volts—Taps for 105-117-130 volts 50-60 cycles 400 watts Internally fused
WEIGHT	141 pounds
AMPLIFIER TUBES	2-845 or 284 type
RECTIFIER TUBES	2-866A
COLOR	Blue Gray
DIMENSIONS	19 $\frac{1}{4}$ " high, 19" wide, 12 $\frac{1}{2}$ " deep

